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ABSTRACT

This preliminary model deals with manpower requirements to 1980 and jobs for University of Georgia graduates. Emphasis is placed on suggested methodology for dealing with a projected output of graduates in terms of speciality fields and the correlation of this projected output with projected manpower requirements in the related speciality fields. The requirements and outputs are listed for the University of Georgia each year both in Georgia and in the U.S. to 1980. A 29-item bibliography and appendices of related material are included. (Author/MJM)

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Abstract:

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ERRATA SHEET

Page 7: Footnote 8 should read Donald Dilion. . .

Page 9: Footnote c instead of footnote d.

Page 18, 19, 20:

Fourth column should have the following heading:

"In Georgia

Average Openings

Per Graduate"

Seventh column should have the following fleading:

"In U.S.

Average Openings

Per Graduate."

Page 83: Second reference should read Dillon, Donald. . .

MANPOWER REQUIREMENTS REPORT TO 1980; JOBS FOR UNIVERSITY OF GEORGIA GRADUATES IN GEORGIA AND THE NATION

January 1973

PREFACE

In restructuring and integrating existing University of Georgia budgetary and planning, procedures into a Planning, Programming, Budgeting System (PPBS), it is important to focus attention on outputs and their evaluation. This orientation is important for all users of the PPB System and criteria must be formulated for measuring and evaluating program output. One aspect of the problem is examined here.

This report is the third in a series being produced by the Office of Program Planning and Analysis. The three reports in the series should not be considered as monographs on important subjects, but rather parts of our input into the planning system structure of the PPB System being implemented at the University of Georgia and supported by the Ford Foundation.

The objective of the report series is to suggest a number of approaches to the difficult problem of identifying and measuring higher education output. As such they should be considered initial studies to be periodically updated and revised and the results made available for the decision-making process at all levels of the University.

The first report, entitled Measuring One University Output A Survey of Undergraduate Degree Holders of the University of Georgia From the Classes of 1960-1970 considered one aspect of the problem. There are really two sets of objectives in an instructional program, those of the institution and those of the student. The ideal situation would be complete agreement between the sets of objectives. Unfortunately, they do not always coincide. All too frequently those in higher education fail to measure program performance from the standpoint of the student's objectives. The first study, therefore, suggested one means of approaching this situation.

The second study entitled A Study of the Ph.D. Graduates of the University of Georgia 1966-1970 dealt with the effectiveness of graduate education at the University of Georgia. Concentration was on the opinions of the graduates regarding the effectiveness of their graduate training. This study reflected another approach to measuring program output and performance.

The third study in the series, reported on here, has a somewhat different orientation. In formulating the Modus Operandi to prepare for the development and implementation stages of



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the PPBS Project the Project Director has stated, that "we will, by the careful selection and use of known analytical methods... probe into... historical, economic, and socio-political factors existing in Georgia and effecting institutions of higher learning,... general manpower studies concentrating on the type, quantity and quality of needed higher education."

Specifically this <u>Manpower Requirements Report</u> looks, first, at the impact of University of Georgia graduates on the manpower supply of Georgia, and secondly, at the projected manpower requirements to 1980. Thus, this report focuses on output requirements which should have an impact on the formulation of output objectives for specific instructional orograms in the University of Georgia.

Manpower studies by necessity use statistical data of the past, projections are based on conjecture using variables of doubtful stability. The freshmen entering the institution will be available for the labor market at best in four years and the Ph.D. in eight years. This study will, therefore, be an effort to establish a methodology and only succeeding studies will give sufficient historical information to become viable instruments for indicating reliable trends for decision-making.

The criteria for this study were outlined by the Project Director in May 1971 and the Project Team was briefed as to the form the study should take. Lin Tisdel and Dong Kun Kim did the initial research of statistical material and relevant literature. Joseph B. Waters supervised and participated in assembling the study and presented a preliminary and unpublished paper entitled "Manpower Study: An Analysis of Job Openings in Georgia and The Nation for College Graduates by Major Fields 1975-1980." This preliminary effort established an acceptable methodology. The Project Director, after reviewing both the preliminary paper and the existing literature, decided further study should be made using also more up-to-date data. Joseph S. Lechowicz, who had assisted in compiling the preliminary paper, was thus commissioned, under the supervision of the Associate Director, to present the newly conceptualized, researched, and much expanded study. The major credit for this current study must, therefore, go to him.

Reports in this series on institutional outputs to-date have focused on outputs of instructional programs (degree-majors). Future Studies might well deal with outputs of public service and research programs.

A.A. Sterns, Director Fred H. Wise, Associate Director



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TABLE OF CONTENTS

| Prefaceii |
|--|
| Table of Contents |
| Guide to Tables |
| Guide to Appendices |
| Introduction |
| Growth in Number of Graduates |
| Growth in Occupations |
| Selected Occupations |
| Selected Occupations in Georgia |
| Jobs per Graduate in Georgia and in the U.S. to 1980 |
| Summary Outlook |
| Georgia's Share in the Occupational Openings of the Nation |
| University of Georgia's Share of Georgia's Graduates |
| Manpower Needs and Graduates |
| Undergraduate Majors 1960-1970 vs. Fulltime Employment |
| Occupational Suggestions |
| Methodology |
| Conclusion |
| Appendices , |
| Bibliography |

GUIDE TO TABLES

| able | · · · · · · · · · · · · · · · · · · · | Page |
|------------|--|------|
| 1 | Employment by major occupational group 1968 and projected 1980 requirements (in thousands) | 5 |
| П | Job outlook in U.S. to 1980 | 9 |
| Ш. | Job Outlook in Georgia to 1980. | 14 |
| IV - ₫ | Jobs per Graduate in Georgia and the U.S. 1972-1980 | 18 |
| , V | Average Job Outlook 1973-1980 | 22 |
| VI | Georgia Openings Compared to U.S. Openings 1972-1980 | 24 |
| VII | University of Georgia's Share of Georgia's Graduates | 28 |
| /111 | University of Georgia Mannower Needs and Graduates | 32 |
| IX | University of Georgia Undergraduate Majors 1960-1970 Employed Full Time 1971-1972 | 43 |

GUIDE TO APPENDICES

| Appendix | Pa _l |
|----------|---|
| 1 | University of Georgia Major Fields Grouped by Selected Occupational Classification in The State of Georgia and in |
| | the United States |
| 2 | State of Georgia — Projected Employment by Occupation to |
| | 1980 |
| 3 | Projected University of Georgia Graduates by Occupation to |
| | 1980 |
| 4 | Projected University System of Georgia Graduates by |
| | Occupation to 1980 |
| . 5 | Projected U.S. Employment by Occupation to 1980 |
| 6 . | Projected U.S. Graduates by Occupation to 1980 |
| 7 | Total Employment in Georgia by Occupation 1960, 1967 and |
| | Projections to 1975 |
| 8 | Expansion and Replacement Needs by Occupation in Georgia |
| | from 1967-1975 |
| 9 | Undergraduate Major of 1958 Graduates who were Employed |
| | Full Time in 1963 |

INTRODUCTION

This report is one of a series being produced by the University of Georgia, Office of Program Planning and Analysis, which focuses on the problem of identifying and measuring institutional output. Specifically, this report deals with projected output of graduates in terms of specialty fields and the correlation of this projected output with projected manpower requirements in related specialty fields. In other words, this study has developed information on the future supply and demand of college trained manpower; it is not a study of the impact of University of Georgia graduates on the economy of the state.

This report is seen as an example of one type of input needed by the program planner in formulating program output objectives. A program can be relevant to society only if it's output objectives match requirements in society.

The personnel who prepared this report do not profess to be manpower specialists. They have not attempted to uncover new data but have used the most recent and reputable data available and reorganized it in a form more useful to administrators, instructors and counselors. The Project Team took available data of The U. S. Labor Department, The Department of Health, Education, and Welfare, The Georgia Department of Labor, and the Georgia Board of Regents and formated it for their specific purpose. All the projections used were developed after the 1970 national census.

Although the projections and basic data were taken from available reports, a number of decisions had to be made by the Project Team. Some of the more critical decisions are as follows:

- (1) The occupations relevant to University of Georgia graduates and selected for this study.
- (2) The major fields in the University and their relationship to the selected occupations a matching process.
- (3) The appropriate data series to be projected to 1980.

Decisions were made with great care. Relevant literature was researched. In individual cases academic advisors and the Chief, Manpower Resources, State of Georgia, were consulted. The procedure and rationale in making decisions are outlined in detail in the section dealing with Methodology.



Finally, these manpower projections in the University of Georgia study have been made within the framework of the assumptions underlying the State¹ and the National² projections to 1980. They are the following:

- (1) The international climate will improve. The United States will no longer be fighting a war, but, on the other hand, a still guarded relationship between the major powers will permit no major reductions in armaments. This would still permit some reduction from the peak levels of defense expenditures during the Vietnam conflict.
- (2) Armed Forces strength will drop back to about the same level that prevailed in the pre-Vietnam escalation period.
- (3) The institutional framework of the American economy will not change radically.
- (4) Economic, social, technological, and scientific trends will continue, including values placed on work, education, income, and leisure.
- (5) Fiscal and monetary policies will achieve a satisfactory balance between low unemployment rates and relative price stability without reducing the long-term economic growth rate.
- (6) All levels of government will join efforts to meet a wide variety of domestic requirements, but Congress will channel more funds to state and local governments.
- (7) Efforts to solve the problems posed by air and water pollution and solid waste disposal, although they may preempt an increasing amount of the Nation's productive resources, will not lead to a significant dampening of our longrun potential rate of growth.
- (8) Fertility rates will be lower than they have been in the recent past.

This report is meant to be an example of the type of study needed on a continuing basis as input to the planning process particularly at the college and department level. The use of manpower specialists might well improve the level of sophistication and quality of future studies.



¹Georgia Department of Labor, Employment Security Agency, Georgia Jobs for the Future, 1971. p.3.

²U.S. Department of Labor, Bureau of Labor Statistics, <u>Occupational Manpower Training Needs</u>, Bulletin No. 1701, (Washington: U.S. Government Printing Office, 1971). p. 67.

GROWTH IN NUMBER OF GRADUATES

The University of Georgia has increased its number of graduates from 2,507 in 1964 to 6,018 in 1972. In 1980 the University is expected to be graduating 9,296 students. These projections are based on projected U. S. college enrollment reflecting a moderate increase (C2).³

The University System in Georgia had conferred 5,739 degrees in 1964-1965. By 1972-1973, the System is expected to confer degrees to 17,266 students. By 1979-1990 the degrees conferred by the University System will reach 27,539. These totals include bachelor's, 1st professional, master's, and doctoral degrees.

It is also predicted that in 1972-1973, United States institutions of higher learning will graduate 1,251,500; the total graduates in 1979-1980 will number 1,744,100.⁴ All the figures have been projected from population studies after the 1970 census.

GROWTH IN OCCUPATIONS

In Georgia the broad occupational makeup is expected to change by 1975. The basic pattern in Georgia will be similar to that of the nation as a whole. White collar workers will increase to 47 percent in 1980. Farm workers will decrease to only 2 percent. Blue collar and service workers are expected to maintain relatively the same proportion of the labor force in Georgia: 36 and 15 percent respectively.⁵

Professional, technical, and kindred workers will represent the fastest growing occupation group in Georgia from 1968-1980 — by 61 percent, making up 14 percent of the labor force.

Managers, officials, and proprietors are expected to increase by 37 percent — a rate that is significantly higher than the comparable national rate.

Sales workers will hold at 6 percent of the job market following closely the trends in retail sales.

Farm managers and farm workers will be affected by automation. They will continue to decrease by 50 percent from 1968 to 1980. Refer to Table 1A and 1B.



³U.S. Department of Commerce, Bureau of the Census, "Projections of School and College Enrollment: 1971 to 2000." <u>Current Population Reports.</u> Series P-25, No. 473. (Washington: U.S. Government Printing Office, January, 1972) pp. 3, 11, 13.

⁴U.S. Department of Health, Education, and Welfare, Office of Education, <u>Projections of Educational Statistics</u> to 1980-81. Publications No. (OE) 72-99. (Washington: U.S. Government Printing Office, 1971.) p. 42.

⁵Georgia, Jobs for the Future, op. cit., p. 32.

On the national scene, the rapid growth in requirements for white collar occupations will continue, faster than the average growth among blue collar workers, slower than the average growth among service workers; farm workers will decline even further. 6

"The professional and technical occupation group, whose growth rate has outpaced that of all major occupational groups in recent decades, will continue to lead from 1968-1980; its estimated rate of increase in 50 percent, compared with 25 percent for all occupations. Service workers, who will increase nearly 40 percent, will be the second fastest growing group. Clerical workers, whose projected growth rate is 35 percent, will be the third fastest growing occupation. They will be followed by sales workers, managers, officials, and pronrietors (22 percent); and operatives (10 percent) are projected to grow less rapidly than total employment. The employment level of non-farm laborers is expected to be about the same in 1980 as in 1968."



⁶Occupational Manpower and Training Needs, op. cit., p. 8.

⁷<u>Ibid.</u> pp. 8-11.

TARLE IA
EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP
1968 AND PROJECTED 1980 REQUIREMENTS (In Thousands)*

| Occupational Group | | 1968 | Projec | Projected 1980 Requirements | 200 | 00000 | |
|--|--------|---------|--------|--------------------------------|---|-----------------|--|
| United States | Number | Percent | Number | Percent | N. S. | 1300.00 | |
| Total | | | | 1100.0 | Jacimber | Percent | |
| | 75,920 | 0,00 | 95.100 | 1001 | 10 100 | 2 | |
| White-collar Workers | 35 551 | 0 97 | | | 001.61 | - 25.55 5.05 | |
| Professional & Tachaiant | | 9 | 48,300 | 20,3 | 12,749 | 35.9 | |
| | 10,325 | 13.6 | 15,500 | 16.3 | 371.3 | | |
| Managers, Officials & Proprietors | 7,776 | 10.2 | 9 | 9 9 | 0.1.0 | | |
| Clerical Workers | 12 002 | | 30. | <u> </u> | 4,724 | 22.2 | |
| Selection of the select | 500'21 | P. 0 | 17,300 | 18.2 | 4.497 | 35.1 | |
| Sales Workers | 4,647 | 6.1 | 6.000 | | | | |
| Slue-collar Workers | 27.525 | 26.2 | | | 202,- | 787 | |
| Craftsmen & Foremen | 2001 | 3 9 | 001.15 | 32.7 | 3,575 | 13.0 | |
| Operatives | | 75. | 12,200 | 12.8 | 2,185 | 21.8 | |
| Albertane to the second | 208,51 | 18.4 | 15,400 | 16.2 | 4.445 | 104 | |
| | 3,555 | 4.7 | 3.500 | 3.7 | | | |
| Service Workers | 182.6 | 70. | | 3 | 66 - | 1.5 | |
| Farm Workers | 246 | £'51 | 3,100 | 13.8 | 3,719 | 39.6 | |
| | #0#'n | D.4. | 2,600 | 2.7 | 2864 | 2000 | |

* U. S. Department of Labor, Bureau of Labor Statistics, Occupational Manpower and Training Needs, Bulletin No. 1701, (Washington; U. S. Government Printing Office, 1971), p. 11,

eric

TABLE 18
EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP
1968 AND PROJECTED 1980 REQUIREMENTS IN GEORGIA

| | | | Project | Projected 1980 | | | |
|-----------------------------------|-----------|---------|-----------|----------------|---------|---------|---|
| droip initiation | 8 | 1968 | Requir | Requirements | Change | 1968-80 | _ |
| State of Georgia* | Number | Percent | Number | Percent | Number | Percent | T |
| Total | 1,752,005 | 100.00 | 2.287.356 | 100.0 | K25 250 | 20 66 | |
| White-collar Workers | 747,800 | 42.68 | 1.084.460 | 47.41 | 336.860 | 36.05 | - |
| Professional & Technical | 196,510 | 11.22 | 315,820 | 33.0 | 000,000 | 40.02 | 6 |
| Managers, Officials & Proprietors | 169,510 | 9.68 | 232,030 | 10.14 | 62.520 | 36.88 | |
| Clerical Workers | 273,430 | 15.61 | 386,350 | 16.89 | 112 920 | 30.00 | |
| Sales Workers | 108,350 | 6.18 | 150.260 | 6.57 | 41 910 | 30.60 | |
| Blue-collar Workers | 675,935 | 38.58 | 821,090 | 35.90 | 145 155 | 30.00 | - |
| Craftsmen & Foremen | 216,150 | 12.34 | 288,885 | 12.63 | 72,735 | 33.65 | |
| Operatives | 367,370 | 20.97 | 435,770 | 19.05 | 68 400 | 33.03 | _ |
| Nonfarm Laborers | 92,415 | 5.27 | 96.435 | 4 22 | 25.5 | 10.01 | |
| Service Workers | 244,725 | 13,97 | 339,720 | 14.85 | 94 995 | 38.54 | |
| Farm Workers | 83,545 | 4.77 | 42,085 | 1.84 | - 41460 | 30.01 | |

^{*} Georgia Department of Labor, Employment Security Agency, Georgia Jobs for the Future, 1971, Interpolated from p. 37-38,

SELECTED OCCUPATIONS

Methodology and Appendix 1 provide detailed information concerning the selection of 64 occupations considered in this study. The selection of these 64 is based on educational requirements of a college degree as outlined by the U. S. Department of Labor for these particular occupations.⁸

The following discussion highlights projections for many of the major occupations in the United States:

Professional and Technical Workers. Employment requirements for professional and technical workers in 1980 are projected at 15.5 million or 50 percent more than the 10.3 million in 1968. The demand for goods and services will be a major factor underlying increasing requirements for these highly specialized workers. Concentration of the population in metropolitan areas will create new demands on their services. Further efforts to develop the nation's resources and industry and the quest for knowledge will also require additions in this field.

Manpower needs will increase in almost every professional and technical occupation; rates of increase will differ among occupations. Table II outlines the differing rates of growth for 64 occupations on the national level.

Teaching. The largest profession is expected to require 2.7 million teachers by 1980 compared with 2.6 million in 1970. Rates of increase among the three major levels of teaching — elementary, secondary, and college — will vary greatly. A growth of 1 percent is expected for elementary school teachers. The 5 percent increase in requirements for secondary school teachers is primarily attributable to higher enrollments in secondary schools to 1980.9

The demand for college and university teachers is expected to grow almost 18 percent as the number of 18-21 year olds rises nearly 2.2 million between 1970 and 1980. 10

Physical Scientists. Physicists are projected to grow from 48,000 in 1970 to 75,000 in 1980 — a 56 percent increase. During the same period chemists are expected to reach 200,000 an increase of 63,000 or 66 percent. Increases in requirements in each of the above fields are heavily dependent on projected increasing expenditures for research and development.

¹⁰U.S. Department of Commerce, Bureau of the Census, "Projections of the Population of the United States, by Age and Sex: 1970 to 2020." <u>Current Population Reports, Series P-25</u>, No. 470. Nov. 1971. p. 31,32.



⁸Donald Dillion, "Toward Matching Personal and Job Characteristics," <u>Occupational Outlook Quarterly</u>, Vol. 15, No. 4, Winter 1971, p. 11-23.

⁹Occupational Manpower and Training Needs, op.cit. p. 11.

The projected increases for life scientists, including botanists, zoologists, and microbiologists will not be as dramatic. By 1980 there will be 60,000 more life scientis' than in 1970 — 240,000 altogether. Growth in this occupation is related to the expanding research in health and environmental quality control.

Medical lab workers are expected to be in great demand by 1980. An increase of 73 percent is envisioned in the ten year period — from 110,000 to 190,000.

Business. Accountants, one of the largest occupations for men, will continue to increase. By 1980 there is a ten year increase expected of 229,000 or 47 percent, bringing their total to 720,000.

Systems analysts win the prize of the greatest percentage increase in the 70's -- 183 percent. Where as in 1970 there were estimated 100,000 systems analysts, by 1980 there will be 283,000. Their increase will parallel the increased use of electronic data processing systems by business, government, universities, and other organizations.

Salaried managers are expected to grow very rapidly as business and government depend increasingly on trained management specialists in the 70's. A rapid growth of 44 percent is projected for manufacturer's salesmen — a 225,000 increase to 735,000 in 1980. Insurance agents and underwriters are expected to increase by 38 percent, or 154,000 to 558,000 by 1980.

The 64 selected occupations taken together are seen increasing over 21 percent in the 70's. However, if teachers were exempted in our computations, the percentage increase of occupations would be 29 percent for the ten year period.

TABLE II JOB OUTLOOK IN U. S. TO 1980

| | | | | Ave | Average Annual Openings 1970-80 | 3.80 | | Γ |
|------------------------|------------|-------------|---------|--------|---------------------------------|-------------------|---|---|
| , | Estimated | Projected | Percent | | • | | | _ |
| | Employment | Requirement | Change | | • | | | - |
| Occupations | 1970 | 1980 ° | /70.R0 | Total | Employment Change | Replacement Needs | Employment Prospects | |
| Agriculture | | | - | | | | | Г |
| Agricultural Engineers | 13,000 | 14,500 | 11.53 | 909 | 150 | 450 | "Rapid increase due to machanization" | |
| Food Scientists | 2,300 | 008'6 | 34,24 | 400 | 250 | 150 | "Hadranda amploment," | |
| Arts & Sciences | | | | | | | ravolable enspire yment outlook | |
| Psychologists | 40,000 | 28,000 | 45.00 | 3,700 | 1,800 | 1,900 | Excellent opportunities for Doctorates | |
| Mathematicians | 75,000 | 110,000 | 46.66 | 4,600 | 3.500 | 1,100 | Companies bean fameable for Dt. D's | |
| Statisticians | 24,000 | 33,000 | 37,50 | 1,400 | 06 | 200 | Very good opportunities for new graduates | |
| Geologists | 23,000 | 27,100 | 17,39 | 200 | 400 | 901 | Facorable for graduates with advanced decrees | |
| Biochemists | 11,000 | 17,000 | 54,54 | 800 | 009 | 200 | season because the manufacture of alternate | |
| Life Scientists | 180,000 | 240,000 | 33,33 | 006'6 | 9000 | 3,900 | Kasa compatition | |
| Chemists | 137,000 | 200,000 | 45,98 | 9,400 | 6,300 | 3.100 | Fauntable constitution in teaching | |
| Physicists . | 48,000 | 75,000 | 56,25 | 3,500 | 2,700 | 008 | Favorable opportunities in teaching | _ |
| Music & Music Teachers | 285,000 | 318,000 | 11,57 | 15,400 | 3,300 | 12.100 | "Overcrowded field" | |
| Commercial Artists | 90,000 | 65,500 | 9,16 | 2,500 | 220 | 1,900 | Favorable outlook for well-trained | |
| Dancers & Actresses | 38,000 | 46,000 | 21,05 | 2,300 | 800 | 1,500 | Az. licants greatly outnumber jobs | |
| Medical Lab Assistants | 110,000 | 190,000 | 72,72 | 13,500 | 8,000 | 5,500 | Exceller poportunities for graduates | _ |
| Clergy | 361,500 | 377,100 | 4.31 | 12,200 | 1,560 | 10,640 | Depends on denomination | _ |
| Anthropologists | 3,100 | 4,100 | 32,25 | 200 | 90 | 00 | Good upportunities for Doctorates | _ |
| Geographers | 7,100 | 000'6 | 28.16 | 200 | 200 | 300 | Strong demand for Ph. D's | _ |
| Political Scientists | 11,000 | 17,000 | 54,54 | 200 | 009 | 9 | Good for Ph. D's in college teaching | _ |
| Sociologists | 12,000 | 16,000 | 33,33 | 800 | 400 | 400 | Good prospects for Ph. D's | _ |
| Historians | 15,850 | 19,000 | 22.08 | 1,000 | 350 | 920 | Keen competition | |
| | | | | | | • | | _ |

* Neal Rosenthal, "The Occupational Outlook Handbook in Brief", Occupational Outlook Quarterly, Vol. 16, No. 1, Spring 1972, pp. 13.33.

**D.S. Department of Labor, Bureau of Labor Statistics, Occupational Manpower and Training Needs, Bulletin 1701, 1971, pp. 67.74.

**Determine from above data — cf. Methodology section.

TABLE II cont.

| | *************************************** |) 30f | JOE CUTLOOK IN U.S. TO .260 | 000 | | * | | |
|------------------------------|---|-------------|-----------------------------|--------|---------------------------------|-------------------|--|----|
| | | | - | Ave | Average Annual Openings 1970-80 | OB-1 | | Γ |
| | Estimated | Projected | Percent | | | • | • | |
| | Employment | Requirement | Change | | | *** | - | |
| Occupations | 1970 | 1980 | 70-80 | Total | Employment Change | Replacement Needs | Employment Prospects | |
| Business | | | - | | | | | Ť |
| Accountants | 491,000 | 720,000 | 46.63 | 31.200 | 22 900 | | | |
| Marketing & Research Workers | 23,000 | 42.000 | 82.60 | 2,600 | 900'11 | 3 | excellent chances for college trained | |
| Personnel & Employment | | ļ | 8- | 2,000 | 006. | 8 | Excellent opportunities for advanced degrees | |
| Workers | 168.000 | 228,000 | 35.71 | 9,200 | 0009 | 3200 | ravorable outlook | |
| Economists | 33,000 | 48,000 | 45.45 | 2,300 | 1.500 | 208 | Eventory proposed and associated trailers | _ |
| Systems Analysts | 100,000 | 283,000 | 183.00 | 22,700 | 18.300 | 4400 | Expellent property for graduate degrees | |
| 8ank Officials & Security | | | | • | | oor:r | | |
| Officers | 374,000 | 496,000 | 32.62 | 22.800 | 12 200 | 10801 | Employment expected to grow | |
| Managers | 362,000 | 445,000 | 22.92 | 20.360 | 002.4 | 12,000 | | |
| Insurance & Underwriters | 405,000 | 228,000 | 37.90 | 21.740 | 15.350 | 2,000 | ravolable outlook | _ |
| Real Estate | 226,000 | 270,000 | 19.46 | 14 800 | 000 | 0,230 | Neen competition | 10 |
| Manufacture's Salesmen | 510,000 | 735 000 | 44 11 | 25,000 | 001.00 | 00*,01 | Many new positions opening | - |
| Education | | | • | 200,63 | 006,22 | 7,500 | Favorable for well-trained | _ |
| College Teachers | 335,000 | 395,000 | 17.91 | 10.800 | 8 | 0000 | ; | |
| College Counselors | 2,800 | 4 000 | 42.85 | 8 8 | 000'0 | 7,800 | Many Ph. D's face strong competition | |
| Kindergarten & Elementary | • | | | 3 | 021 | 8 | Prospects good for beginning positions | |
| | 260,000 | 1,270,000 | 70 | 000 63 | | | New graduates may face keen competition | |
| Secondary School Teachers | 015,000 | 1005 | | 00,20 | 000': | 51,000 | | |
| | 2,000 | 000,500,1 | 4.92 | 38,000 | 9,000 | 33,000 | Supply will exceed requirements | _ |
| Speech Pathologist & | 3 | 000'67 | 38.88 | 5,200 | 2,100 | 3,100 | "Rapid employment increase" | _ |
| Andrea | - | | | | | | Good opportunities for advanced degrees | _ |
| 213 | 22,000 | 33,000 | 20.00 | 2,200 | 1,100 | 1,100 | | |
| _ | 125,000 | 155,000 | 24.00 | 11,500 | 3,000 | 0018 | sold or angelia in the second | |
| Park & Recreation Workers | 13,500 | 23,500 | 74.07 | 1,700 | 1,000 | 002 | Excellent opportunities for mall analising | |
| Rehabilitation Counselors | 13,000 | 21,000 | 61.53 | 1,600 | 008 | 8 8 | "Excellent concertuaises." | _ |
| | | | | | - | 3 | | |



TABLE II cont. JCB OUTLOOK IN U. S. TO 1980

| | | 200 | ACBUOILDUR IN U.S. 10 1960 | Nev. | | | • | |
|---------------------------|------------|-------------|----------------------------|------------|---------------------------------|-------------------|--|----------|
| | | | | Avei | Average Annual Openings 1970-80 | 80 | | _ |
| | Estimated | Projected | Percent | | | | • | |
| , | Employment | Requirement | Change | <u>-</u> - | | , | • | |
| Occupations | 1970 | 1980 | 70-80 | Totaí | Employment Change | Replacement Needs | Einplovnient Prospects | _ |
| Environmental Design . | | - | | | | | | _ |
| Landscape Architects | 18,000 | 23,000 | 27.77 | 1,350 | 200 | 850 | Professional opportunities will expand | <u> </u> |
| Forest Resources | | • | • | | | | • | |
| Foresters, Range Managers | | | - | - | _ | | Supply may exceed demand | |
| Fish & Game Workers | 36,600 | 27,200 | 56.28 | 2,360 | 2,060 | 300 | | |
| Home Economics | | | | | • | | 27 | |
| Dietitians | 30,000 | 42,100 | 40.00 | 2,300 | 1,200 | 1,100 | Very good cofortunities | |
| Food Process Managers | 3,400 | 4,500 | 32.35 | 150 | 110 | 40 | Opportunities for technically trained | |
| Home Economists | 105,000 | 130,000 | 23.80 | 6,700 | 2.500 | 4.200 | Grostnet domand in traching | _ |
| Journalism | | - | | | | | | - 1 |
| Newspaper Reporters | 39,000 | 45,000 | 15.38 | 1,650 | 009 | 1,050 | Eavorable concertunities for talented | 1 - |
| Technical Writers | 20,000 | 25,000 | 25.00 | 1,000 | 200 | 200 | Good prospects - need writing shilling | • |
| Advertising | 141,000 | 155,000 | 9.92 | 5,400 | 1,400 | 4.000 | "Slow growth" | |
| Public Relations Workers | 175,000 | 115,000 | 22.85 | 4,400 | 4,000 | 400 | Good opportunities training demands differ | |
| Law | | - | - | | - | | deposition of the second of th | _ |
| Lawyers | 280,000 | 335,000 | 19.64 | 14,000 | 5,500 | 8.500 | Good opportunities for high ranking graduates | |
| Pharmacy | .* | | | - | | • | | _ |
| Pharmacists | 129,000 | 136,000 | 5.42 | 5,100 | . 002 | 4,400 | "Employment to grow" | |
| Social Work | • | | | • | | | | _ |
| Social Workers | 170,000 | 270,000 | 58.82 | 18,000 | 10,000 | 8,000 | "Very good prospects" | |
| Veterinary Medicine | | | | | | | | |
| Veterinarians | 25,000 | 35,000 | 36.00 | 1,500 | 006 | 009 | "Very good outlook" | |
| Average for the Selected | - | - | | | | | | |
| Occupations | 8,298,900 | 10,070,100 | 21.34 ° | | | | | |
| | | | | - | | | | |

Percent Change without Teachers is equal to 29 02.

SELECTED OCCUPATIONS IN GEORGIA

The following analysis of the selected occupational groups will highlight the major developments in Georgia over the period 1970-1980. We have attempted to interpolate and extrapolate our data for the State of Georgia during the same period as was done for the U.S. occupational groups. In this way we would hope to facilitate comparison of Georgia's occupational growth with that of the nation. Throughout the entire study, all data on occupations in Georgia have been interpolated from Georgia Jobs For the Future, Georgia Department of Labor. Refer to Table III as well as Appendices 6 and 7 of this study.

For the state of Georgia all occupations are projected to increase from 1,841,250 in 1970 to 2,287,350 in 1980 or 24.2 percent. Professional Technical and Kindred workers are expected to rise from 216,410 to 315,820, an increase of 45.9 percent, in the same ten year period. This increase is close to the increase of all the selected occupations of this study for Georgia. The increase for the 64 selected occupations of this study was 42.6 percent from 1970 to 1980.

Agricultural Scientists. The agricultural scientists are projected to increase from 1350 to 1950 in the ten year period — a 44.4 percent increase. No doubt this increase reflects the fact that as agriculture becomes more and more automated, the demand for the trained person will be more acute. However, the overall number of workers on farms will decrease from 1970 to 1980 by 34,550 if existing economic and social conditions prevail to 1980. The percentage of decrease is expected to be 45 percent from 76,600 to 42,000, a noteworthy statistic for the University and especially the College of Agriculture. 11

Physical Scientists. Physicists are seen to increase by 800 in the 70's to 1540 — the greatest increase of all Georgia occupations studied. Chemists are also projected for a healthy increase of 1810 in the ten year period to 4,345 — a 71.4 percent rise. Mathematicians are expected to increase from 800 to 1200 for 1970-1980. Psychologists can be seen to increase from 585 to 975 — a 67 percent increase. Biological scientists are projected to increase from 850 to 1470 by 1980 — a 73 percent change.

Teaching. The demand for teachers in Georgia will continue to rise by 39.7 percent. 60,130 teachers in 1970 is seen increasing to 84,010 by 1980. The demands will vary in the different groups of teachers. For instance college teachers are expected to increase by 40.5 percent or 3600. Secondary school people are envisioned to have the greatest gain — 10,650 or



¹¹ Georgia Jobs for the Future, op. cit. p. 33-36.

51.7 percent in the ten year period. Elementary school teachers are projected to increase by 7,050 from 1970 to 1980 — a 29.3 increase. These projected increases seem to belie the experience of many young teachers seeking employment. But as Mr. Lawrence Bixby of the University of Georgia Placement Center contends, there are many positions in teaching (primary and secondary) to be filled in small cities and communities of the State.

Business. Accountants and auditors are expected to increase by 4750 to 17,115 by 1980 — a ten year increase of 38 percent. Personnel and labor relations workers have a projected increase of 1550 to 4745, a 48.5 percent rise. Economists have a healthy projected increase of 66.7 percent, though this represents 360 positions or a total of 900 by 1980. Similarly creditmen are seen to increase by 54.8 percent to 2600 — an increase of 920 positions in ten years.

The increase in insurance agents and real estate agents is relatively close to 45 percent and 48 percent respectively. In the former, 45 percent represents an increase of 8,120 to 26,020. In the latter 48 percent represents an increase of 1,120 to 3,460, in both cases to 1980.

Other Groups. In the state, managers, officials, and proprietors are expected to rise from 179,900 to 232,000 in the ten year period — nearly 29 percent. Sales workers will rise from 115,400 to 150,300 — a 30.2 percent increase in the 70's. These broad groups are not given in Table III.

Positions in social work are expected to rise by 41.9 percent between 1970 to 1980 — representing an increase of 1260 to 4270.



JOB OUTLOOK IN GEORGIA TO 1980 TABLE III

| Titles | U. S. Occupational | State of Georgia | Estimated Employment | Projected Requirement | Percent | Averag | Average Annual Openings 1970-1980 b | 1970-1980 ° | |
|--|--------------------------|------------------------------|-------------------------|--------------------------|-----------|---------|-------------------------------------|----------------------|---|
| Agricultural Scientists with Other Natural Scientists 1,350 1,950 44,44 81 60 Psychologists 585 975 66.66 52 39 Statisticient & Actuaries 800 1,200 50.00 55 40 Statisticient & Actuaries 800 1,000 47.05 50 32 32 Geologists 850 1,470 72.94 82 62 62 Geologists 850 1,470 72.94 82 62 62 Ghower Natural Scientists 850 1,470 72.94 82 62 Chemists 2,535 4,345 77.40 211 181 Physicists 740 1,540 108.10 86 649 Mortant In Arts & Entertain 13,325 19,815 48.70 1,092 649 Arts Mortant Marckers 5,985 10,196 70.34 588 421 Cherry 225 375 66.66 66.66 66.6 | Titles | Occupational Titles | 1970 | 1980 | 1970-1960 | Total | Employment Change | Replacement Needs | |
| Agricultural Scientist with 1,350 1,950 44,44 81 60 | Agriculture ^c | | | | | | | | Τ |
| Statistical Scientists Cheenical Monters Cheenical Monters | Agricultural Engineers | Agricultural Scientist with | 1,350 | 1950 | 44.44 | 5 | | · | |
| Phychologists 585 975 66.66 52 39 1200 1,200 50.00 55 40 1,200 50.00 55 40 32 32 32 32 32 32 32 3 | Food Scientists | Other Netural Scientists | | | * | | 09 | - 21 | _ |
| Psychologists 585 975 66.66 52 39 39 | Arts & Sciences | | • |] | i i | ! | 1 | ! | |
| Statisticians & Actuaries 800 1,200 50.00 55 40 | Psychologists | Psychologists | - 285 | 975 | 99 99 | £ | 6 | | |
| Statisticians & Actuaries 680 1,000 47.05 50 32 Geologists Scientists 330 350 6.06 177 2 Biological Scientists 850 1,470 72.94 82 62 Geologists Scientists 865 675 -1.50 8 1 Chemists Chemists 2,535 4,345 71.40 211 181 Chemists Chemists 740 1,540 108.10 86 80 Artists Chemists 13,325 19,815 48.70 1,092 649 44 Assistants Chemical Medical & 8,760 12,560 43.37 758 380 33 Chief Social Scientists 2,585 10,195 70.34 588 421 16 Intitit Other Social Scientists 225 375 66.66 21 15 Intitits Other Social Scientists 225 375 66.66 21 15 Intitits Other Social Scientists 225 375 66.66 21 15 Intitits Other Social Scientists 225 375 66.66 21 15 Intitits Other Social Scientists 225 375 66.66 21 15 Intitits Other Social Scientists 225 375 66.66 21 15 Intitits Other Social Scientists 225 375 375 66.66 21 15 Intitits Other Social Scientists 225 375 66.66 21 15 Intitits Other Social Scientists 225 375 375 66.66 21 15 Intitits Other Social Scientists 225 375 | Mathematicians | Mathematicians | 908 | 1200 | 2003 | 35 33 | 65 S | <u>.</u> | |
| Geologists 330 350 6.06 17 2 | Statisticians | Statisticians & Actuaries | 089 | 0001 | 47.05 | 8 5 | 0 (| 5 | |
| Sicological Scientists 850 1,470 72.94 82 62 62 62 63 64 64 64 64 64 64 64 | Geologists | Geologists | 330 | 320 | 99 | 2 8 | χ ° | 20 ! | |
| Other Scientists Geb5 G75 -1.50 8 1 181 | Biochemists | Biological Scientists | 850 | 1.470 | 72.62 | ÷ 6 | 7 5 | 35 | |
| Chemists | Life Scientists | Other Natural Scientists | 965 | 675 | -150 | 7 ° | 79 | - 50 - | _ |
| Physicists Physicists Morkers in Arts & Entertain 13,325 19,815 48.70 1,092 649 4 Astistents Certy Certy 5,985 10,195 70.34 588 421 11 Other Social Scientists Certy 225 375 66.66 21 15 | Chemists | Chemists | 2,535 | 4.345 | 71.40 | • • • • | | | |
| Assistants Workers in Arts & Entertain 13,325 19,815 48.70 1,092 649 | Physicists | Physicists | 740 | 1540 | 01.801 | ; 8 | 6 8 | <u> </u> | |
| Assistants Morkers in Arts & Entertain 13,325 19,815 48.70 1,092 649 Assistants Technical Medical & 8,760 12,560 43.37 758 380 Other Workers Clergy 5,985 10,195 70.34 588 421 pists Other Social Scientists 225 375 66.66 21 15 | _ | | - | 2 | 2 | 8 | 8 | 9 | |
| Assistants Technical Medical & 8,760 12,560 43.37 758 380 | | Workers in Arts & Entertain- | 13,325 | 19,815 | 48.70 | 1,092 | 649 | 443 | |
| Other Workers 5,985 10,195 70,34 588 421 Other Social Scientists Other Social Scientists | Medical Lab Assistants | Technical Medical & | 280 | 40 660 | | 1 | | • | |
| Cleray 5,985 10,195 70,34 588 421 | | Other Workers | 3 | . 006'71 | 43.37 | 758 | 380 | 378 | _ |
| piets Other Social Scientists 225 375 66.66 21 15 | - | Clergy | 5.985 | 261.01 | 25.05 | 6 | ; | | |
| entists Other Social Scientists 225 375 66.66 21 15 | Anthropologists | | | } | | 000 | 421 | 167 | |
| antists Other Social Scientists 225 375 66.66 21 15 | Geographers | | - | | | | | | |
| G C | ~ | Other Social Scientists | 522 | 375 | 99 99 | č | ; | , | _ |
| Historians | | - | - | } | 3 | 7 | 15 | 9 | |
| | Historians | | | _ | | • | | | _ |

- 14 -

Appendix 2, Interpolated from 1975 totals and "Average Annual Change".

Appendix 8. "Total Demand", "Expension Neads", "Replacement Needs" divided by eight.

Negative projections for the industry in State of Georgia.

TABLE ISI cont. JOB OUTLOOK IN GEORGIA TO 1960

| State of Georgia Employment Change Total Employment Accountants & Auditors 12,385 17,115 38,41 779 475 Personnel & Lator Relations 3,185 4,745 48,51 233 155 Workers Economist 540 900 66,66 49 36 Condemn 1,880 2,600 54,76 132 92 Managers ** 17,940 26,060 45,26 1,187 812 Real Estate Agents 17,340 26,060 45,26 1,187 812 Real Estate Agents 2,340 3,460 47,86 216 112 College Teachers 26,515 32,565 29,30 1,853 750 Secondary School Teachers 2,140 7,720 50,19 455 258 Librarians 2,5515 34,10 33,99 225 86 | | | Estimated | Projected | Percent | Avera | Average Annual Openings 1970-1980 | 1970-1980 | |
|---|-----------------------------|---|--------------------|---------------------|---------------------|----------|-----------------------------------|----------------------|-----|
| Accountants & Auditors 12,365 17,115 38,41 779 475 Personnel & Labor Relations 3,195 4,745 48,51 233 155 Workers 540 900 66,66 49 36 Conditions 1,680 2,600 54,76 132 92 Managers* 17,940 26,060 45,26 1,187 812 Real Estate Agents 2,340 3,460 47,86 1,187 812 Real Estate Agents 2,340 3,460 47,86 1,187 812 College Teachers 2,340 3,460 47,86 1,187 812 Remembery Teachers 2,515 32,565 29,30 1,863 750 Secondary School Teachers 2,515 32,565 29,30 1,863 750 Secondary School Teachers 5,140 7,720 50,19 455 258 Librarians 2,530 3,410 33,99 225 86 | U. S. Occupational Titles | State of Georgia Occupational Titles | Employment 1970 | Requirement 1980 | Change 1970-1960 | Total | Employment Change | Replacement Needs | , |
| Accountant & Auditors 12,365 17,115 38.41 779 475 Personnel & Labor Relations 3,185 4,745 48.51 233 155 Workers 540 900 66.66 49 36 Creditmen 1,680 2,600 54.76 132 92 Managers * 17,940 26,080 45.26 1,187 812 Insurance Agents 2,340 3,460 40.49 594 360 Real Estate Agents 2,340 3,460 40.49 594 360 Elementary Teachers 2,515 32,565 29.30 1,853 750 Elementary School Teachers 2,140 7,720 50.19 455 258 Other Teachers 5,140 7,720 50.19 255 86 | Business | | - | | | | - | | T |
| Personnel & Labor Relations 3,195 4,745 48.51 233 155 Workers S40 900 66.66 49 36 Conditions 1,680 2,600 54.76 132 92 Managers ** 17,940 26,080 45.26 1,187 812 Inhusiance Agents 17,940 26,080 45.26 1,187 812 Real Estate Agents 2,340 3,460 47.86 1187 812 Real Estate Agents 2,340 3,460 40.49 594 360 Flementary Teachers 25,515 32,565 29.30 1,853 750 Secondary School Teachers 20,585 31,235 51.73 1,790 1,065 Other Teachers 5,140 7,720 50.19 455 258 Librariens 2,530 3,410 33.99 225 86 | Accountants | Accountants & Auditors | 12,365 | 17,115 | 38.41 | 279 | 475 | 30 | |
| Personnel & Labor Relations 3,195 4,745 48.51 233 155 Workers S40 900 66.66 49 36 Conditionen 1,680 2,600 54.76 132 92 Managers ** 17,940 26.080 45.26 1,187 812 Insurance Agents 17,940 26,080 45.26 1,187 812 Real Estate Agents 2,340 3,460 47.86 1,187 812 College Teachers 8,890 12,490 40.49 594 360 Elementary Teachers 25,515 32,565 29.30 1,853 750 Secondary School Teachers 5,140 7,720 50.19 455 258 Uther Teachers 5,140 7,720 50.19 455 258 Librariens 2,530 3,410 33.99 225 86 | Marketing & Research | | • | | | | | } | |
| Workers | Workers • | - | 1 | 1 | - | 1 | ı | | |
| Workers 540 900 66.66 49 36 Creditimen 1,680 2,600 54,76 132 92 Managers ** Integral inte | Personnel & Employment | Personnel & Labor Relations | 3,195 | 4,745 | 48.51 | 233 | 155 | 78 | |
| Etomomists 540 900 66.66 49 36 Creditimen 1,690 2,600 54.76 132 92 Managers ⁴ Invariance Agents 17,940 26,000 45.26 1,187 812 Real Estate Agents 2,340 3,460 47.86 216 112 College Teachers 8,890 12,490 40.49 594 360 Elementary Teachers 25,515 32,565 29.30 1,853 750 Secondary School Teachers 20,586 31,235 51,73 1,790 1,085 Other Teachers 5,140 7,720 50.19 455 258 Librarians 2,530 3,410 33.99 225 86 | Workers | Workers | - | | | | ! | ? | |
| Creditinen 1,680 2,600 54.76 132 92 Managers* intrusence Agents 17,940 26,060 45.26 1,187 812 Real Estate Agents 2,340 3,460 47.86 1,187 812 College Teachers 2,340 3,460 47.86 1,187 812 College Teachers 8,890 12,490 40.49 594 360 Elementary Teachers 25,515 32,565 29.30 1,853 750 Secondary School Teachers 20,585 31,235 51,73 1,790 1,065 Other Teachers 5,140 7,720 50.19 455 258 Librarians 2,530 3,410 33.99 225 86 | Economists | Economists | 240 | 006 | 99.99 | 49 | 38 | - 2 | |
| College Teachers 1,680 2,600 54.76 132 92 Intervience Agents 17,940 26,080 45.26 1,187 812 College Teachers 2,340 3,460 47.86 216 112 College Teachers 8,890 12,490 40.49 594 360 Elementary Teachers 25,515 32,565 29.30 1,853 7,50 Secondary School Teachers 5,140 7,720 50.19 455 258 Librarians 2,530 3,410 33.99 225 86 | Systems Anelysts • | | | | | ! | } | ? ['] | |
| Managers | Bank Officials & Security | Creditmen | 1,680 | 2,600 | 54.76 | 132 | 42 | 4 | -;- |
| Name Name | Officers | | | | | ! | <u>;</u> | } | |
| Insurance Agents | Menagers | Managers * | | 1 | 1 | | 1 | J | |
| Real Estate Agents | Insurance & Underwriters | Insurance Agents | 17,940 | 26,080 | 45.26 | 1,187 | 812 | 375 | |
| College Teachers 8,890 12,490 40.49 594 360 / Elementary Teachers 25,515 32,565 29,30 1,853 750 Secondary School Teachers 20,585 31,235 51,73 1,790 1,065 Other Teachers 5,140 7,720 50,19 455 258 Librarians 2,530 3,410 33,99 225 86 | Roal Estate | Roof Estate Agents | 2,340 | 3,460 | 47.86 | 216 | 112 | 25 | |
| College Teachers 8,890 12,490 40.49 594 360 / Elementary Teachers 25,515 32,565 29.30 1,853 750 Secondary School Teachers 20,585 31,235 51.73 1,790 1,065 Other Teachers 5,140 7,720 50.19 455 258 Librarians 2,530 3,410 33.99 225 86 | Manufacture's Salesmen | | l | 1 | 1 | - | ! - | : - | |
| College Teachers | Education | | | | | | | | _ |
| Secondary School Teachers 25,515 32,565 29.30 1,853 750 750 Secondary School Teachers 20,585 31,235 51.73 1,790 1,065 Librarians 2,530 3,410 33.99 225 86 | | College Teachers | 088 | 12.480 | 70.40 | 30 | | , (| |
| Secondary School Teachers 25,515 32,565 29.30 1,853 750 750 | _ | | | 7,130 | | 5 | 98 | 234 | |
| Secondary School Teachers 20,585 31,235 51.73 1,790 1,065 Other Teachers 5,140 7,720 50.19 455 258 Librarians 2,530 3,410 33.99 225 86 | Kindergerten & Elementary | Elementary Teachers | 25,515 | 32,565 | 29.30 | 1,853 | 250 | 1.148 | _ |
| Secondary School Teachers 20,585 31,235 51.73 1,790 1,065 Other Teachers 5,140 7,720 50.19 455 258 Librarians 2,530 3,410 33.99 225 86 | Teachers | <u>x</u> | | | | | | , | |
| Secondary School Teachers 20,565 31,235 51.73 1,790 1,065 Other Teachers 5,140 7,720 50.19 455 258 Librarians 2,530 3,410 33.99 225 86 | | | | | | | | | |
| Other Teachers 5,140 7,720 50.19 455 258 Librarians 2,530 3,410 33.99 225 86 | _ | secondary school Teachers | 505,05 | 31,235 | 51.73 | 1,790 | 1,065 | 725 | |
| Librarians 2,530 3,410 33.99 225 86 | | Other Teachers | 5,140 | 7.720 | 50.19 | 455 | 258 | 197 | _ |
| Librarians 2,530 3,410 33.99 225 86 | Audiologists | | | | | } | } | <u>.</u> | |
| | *** | Librarians | 2,530 | 3,410 | 33.99 | 225 | 8 | 139 | |
| Rehabilitation Franchis | Park & Recreation Workers | | - |] | ı | | : - | 1 | |
| | Rehabilitation Counselors • | | 1 | | I | | | | |

No meaningful corresponding projections between U.S. & State of Georgia.

No corresponding occupation in Georgia Data.

TABLE III cont. JOB OUTLOOK IN GEORGIA TO 1980

| | | Estimated | Projected | Percent | Average | Average Annual Openings 1970-1980 | 970-1980 | Г |
|--|---|--------------------|---------------------|---------------------|---------|-----------------------------------|----------------------|---|
| U. S. Occupational Titles | State of Georgia Occupational Titles | Employment 1970 | Requirement 1980 | Change 1970-1960 | Total | Employment Change | Replacement Nerds | |
| Environmental Design | | | | | | | | Т |
| Landscape Architects | | 1 | , | | | } | 1 | _ |
| Forest Resources | | - | | | | | | _ |
| Foresters, Range Managers | | | | | | | | |
| Fish & Game Workers | - Corpsiens | - | 1 | 1 | 1 | ! | - | |
| Home Economics | | | | | | | | |
| Dietitians | | | | • | | | | |
| Food Process Managers | Dietitians & Nutritionists | 615 | 908 | 30.89 | 67 | 01 | Ę | |
| Home Economists | | ~ | - | | | ? | 3 | |
| Journalism | | | | | | • | _ | |
| Newspaper Reporters | | - | | ! | | | | |
| Technical Writers | Fortons, neporters & | 0001 | 3,620 | 35.07 | 173 | 8 | 79 | |
| Advertising 0 | | ! | - | ! | ! | 1 | | |
| Public Relations Workers | | ì | - | l | 1 | | | |
| Lew | | • | | | | | | |
| Lawyers | Lawyers & Judges | 4,120 | 4,680 | 13.59 | 177 | S | 121 | |
| Phermacy | | , | | | | 3 | 2 | |
| Phermacists | Phermacists | 2,655 | 2,945 | 10.92 | 25 | 8 | 75 | |
| Social Work | | | | | | 2 | 2 | |
| Social Workers | Social Workers | 3,010 | 4,270 | 41.86 | 252 | 8, | 136 | |
| Veterinery Medicine | | | | | | | 2 | |
| Veterinarians | Veterinarians | 220 | 230 | - 3.63 | 6 | ~ | - | |
| Average for the Selected Occupations | Occupations | 151,180 | 215,600 | 42.61 | | | | Т |
| With Personnel & Labor Relations Workers | ations Workers | | | | | | | 7 |

With Personnel & Labor Relations Workers.

• Average projections for the industry in the State of Georgia.

• Percent change without teachers ** 44.5.?.

JOBS PER GRADUATE IN GEORGIA AND IN THE U.S. TO 1980

After reviewing the varying growths in occupations in the State and in the Nation, the average job market for college and university graduates during the 70's will be discussed. The reader will recall that our graduates include bachelors, masters, doctorate, and professional degree winners. In Table IV, average annual job openings in Georgia have been computed and compared with the average annual number of graduates of the University of Georgia System. This comparison has produced an average opening per graduate for each of the selected occupations in the 70's. The same has been done on the national level producing the average annual openings per graduate in the Nation.

TABLE IV

| | | JOBS PER GRADU | JOBS PER GRADUATE IN GEORGIA 1972-80 | . 08 | | - |
|------------------------|---------------------------------|---------------------------------|---|--------|----------------------|--|
| Occupation | Average Openings Georgia* | Average Graduate Georgiab | In Georgia Percent of Average Opening | 10 | Average Graduates | In U. S. Percent Of Average Openings |
| Agriculture | | - | Per Graduate | 0.85 | U. S.ª | Per Graduate |
| Agricultural Engineers | A. Selention | <u> </u> | | | | |
| Food Scientists | |) ac | 1.620 | 009 | 912 | .657 |
| Arts & Scientists | | 9 | 1 | 1 | 1 | i |
| Psychologists | 25 | | - | | - | • |
| Mathematicians | | 202 | 800. | 3,700 | 7,475 | 494 |
| Statisticians | 8 6 | % | 3 | 4,600 | 49,100 | .093 |
| Geologists | 2 6 | 20 L | 1.316 | 1,400 | 1,470 | .952 |
| Biochemists | Brelegkal) 0.0 | 9 | 6 06. | 200 | 4,500 | 111 |
| Life Scientists | Natural 1 02 | 20 | ~ | 800 | 1,645 | 486 |
| Chemists | o , stellers | 1,747 | | 006'6 | 154,000 | 790 |
| Physicists | | 269 | .370 | 9,400 | 23,685 | 968 |
| Music & Music Teachers | 8 | 437 | 961. | 3,500 | 15,200 | 230 |
| Commercial Artists | 600 | 192 | | 15,400 | 23,830 | |
| Dancers & Actresses | 760': | 280 | 2.153 | 2,500 | 15,560 | 160 |
| Medical Lab Assistants | 926 | £ 1 | _ | 1 | ! | - |
| Cierav | 8 6 | 67 | 11.313 | I | Į. | ! |
| Anthropologists | 28 | 90 (| 16.333 | 12,200 | 22,560 | 540 |
| Geographers | | 34 | | 200 | 5,432 | 930 |
| Political Scientists | Societ | 80 d | | 200 | 5,866 | 980 |
| Sociologists | | a . | 010. | 902 | 46,008 | 510. |
| Historians | | e 6 | | 000 | 43,320 | 810. |
| | | 989 | | 00, | 69,365 | 014 |
| | | | _ | | | - |

- 18 -

Appendix 8 "Total Demand" divided by eight

^b Appendix 4 Average of 1972-1980 Totals

C Appendix 5 Difference of 1980 Total and 1970 Total divided by ten

d Appendix 6 Average of 1972-1980 Totals

TABLE IV cont.

JOBS PER GRADUATE IN GEORGIA 1972-80

| Occupation | Average Openings | Average Graduate | In Georgia Percent Of Average Opening | Average Openings | Average | In U.S. Persent Of | |
|--------------------------------------|---------------------|---------------------|---|---------------------|---------|----------------------------------|---------|
| Business | reorgia | Georgia | Per Graduate | U. S. | U.S. | Average Openings Per Graduate | |
| | | | | | | | |
| Accountants | 779 | 730 | 1.067 | 31 200 | 22.20 | 700 | |
| Marketing & Research Workers | _ | 761 | | 009'0 | 22,390 | 20 | |
| Personnel & Employment Workers | 233 | ÷ | | 7,000 | 22,320 | 911. | |
| Economists | 3 | 2 (| d20. | 10,200 | 7,760 | 1,314 | |
| Systems Applicate | ה ד | 432 | . 13 | 2,300 | 30,950 | .074 | |
| Sant Officials & Committee Committee | | 75 | 1 | 22,700 | 3,050 | 7.442 | _ |
| Series of Security Officers | 132 | 238 | .552 | 22,800 | 9.590 | 2377 | |
| Managers | - | 2,520 | ¦ | 20.200 | 17000 | 7.0.3 | _ |
| Insurance & Underwriters | 1,187 | 2 | 14 130 | 200/21 | /+0′07 | 5/6. | |
| Real Estate | 216 | 135 | 20.5 | 36,500 | 1,510 | 24.172 | |
| Manufacture's Salesmen | - | 2 5 | 670. | - | | <u>.</u> | |
| Education | | 2 | ! | 25,000 | 84,860 | .294 | 19 — |
| College Teachers | 594 | 28K | 700 | | | | |
| College Counselors | 1 | ? ? | * 00.7 | 008,01 | 25,970 | 415 | |
| Kindergarten & Elementary Teachers | 1 853 | 2000 | | ! | į | 1 | |
| Secondary School Teachers | 333 | oso's | 01c. | 25,000 | 196,100 | .265 | |
| School Counselors | 1,790 | 2,434 | .631 | 38,000 | 94,300 | .402 | |
| Speech Pathologist & Andiologists | - | | | 2,200 | 15,450 | .336 | |
| i hearing | 20.00 | 780 | 1,625 | 2,200 | 8,975 | .245 | |
| | 255 | 61 | 3.813 | 11,500 | 10.513 | 1 093 | |
| Tark of hecreation Workers | ŀ | 144 | 1 | 1,700 | 2303 | 220 | |
| Rehabilitation Counselors | | 20 | } | | 3 | 95/ | |
| Environmental Design | - | 3 | | 90, | 972 | 1.646 | |
| Landscape Architects |] | 74 | - | 1,350 | 7.030 | 202 | |
| | | | | | | 761. | |

JOBS PER GRADUATE IN GEORGIA 1972-80

| Occupation | Average Openings Georgia | Average Graduate Georgia | In Georgia Percent Of Average Opening Per Graduate | Average Openings U.S. | Average Graduates U. S. | Parcent Of Average Openings Per Graduate |
|--|----------------------------------|--------------------------------|---|-----------------------------|-------------------------------|--|
| Forest Resources Foresters, Range Managers Fish & Game Workers | | 203 | - | 2,360 | 4,860 | .485 |
| Dietitians | | 13 | | 2.300 | 1615 | 1 424 |
| Food Process Managers | 49 | 18 | .205 | 150 | 524 | 286 |
| Home Economists | | 208 | | 6,700 | 13,225 | .506 |
| Journalism Newspaper Reporters Technical Writers | 173 | 247 916 | .148 | 2,650 | 9,184 | .288 |
| Advertising Public Helations Workers | with Personnel & Lebor Relations | 188 | | 4,400 | 1,900 | 2.315 |
| Lawyers | 177 | 160 | 1.099 | 14,000 | 27,180 | 213. |
| Pharmacy Pharmacists Social Work | 20 | 207 | .502 | 5,100 | 6,713 | .759 |
| Social Workers Veterinary Medicine | 252 | 27.1 | .929 | 18,000 | 13,165 | 1.367 |
| Veterinarians | 6 | 106 | .085 | 1,500 | 1,825 | .821 |

SUMMARY OUTLOOKS

Table V is our attempt to summarize the job outlook for the graduates in Georgia and for the U.S. graduates. If there were projected one or more jobs per graduate annually in any individual occupation, this situation was judged to be "very good." If our projections indicated .75 to 1 job per graduate annually, it was felt to be "good." If projected averages for an occupation were between .50 and .75 job per graduate annually, this situation was characterized as "fair." Projections less than "fair" were seen to be "difficult." Some selected occupations with projections on the national level did not lend themselves to Georgia projections. These were included in a category of "no direct data" on the state level.

It is the contention of the Project Team that up-to-date and bi-annual totals as presented in Tables IV and V are essential to the University information system. Information regarding the occupational needs of the State and the Nation must be current not only for the planning, programming, and budgeting system of the University but also for the meaningful counseling of students and planning at the department and school level.



AVERAGE JOB OUTLOOK 1973-1980 **TABLE V**

| · | | | _ |
|--|------------------------------|-----------------------------------|---|
| Librarians Social Workers Insurance & Real Estate Agents ^a | Accountants Statisticians | Agricultural Engineers Lawyers | Workers in Music & Art College Teachers ^c Speech Pathologist & Audiologists |
| yment Workers Bank Officers | | Psychologists | Secondary School Teachers School Counselors Kindergarten & Elementary Teachers |
| Personnel & Employment Workers | Veterinarians Pharmacists | Home Economists Foresters | Chemists ^d Reporters & Writers Physicists ^d Mathematicians Economists Geologists ^d Life Scientists |
| Systems Analysts Public Relations Workers Rehabilitation Counselors Dietitians | Managers & Purchasing Agents | Park & Recreation Workers | Manufacture Salesmen Landscape Architects Marketing & Research Workers |
| VERY GOOD | G00D | ЯІАЯ | DIFFICULT |

UNITED STATES

GEORGIA DIFFICULT NO DIRECT DATA

GOOD & VERY GOOD

a Insurance & Real Estate V. G.: Non-college graduates are also eligible making the ratings inflated.

^b Interpolated from Table IX percent of graduates going into fields.

^c Does not include Masters Level College Teachers.

^d Ratings in some occupations in the Natural Sciences may be low because bachelor's graduates are included.

GEORGIA'S SHARE IN THE OCCUPATIONAL OPENINGS OF THE NATION

In Table VI, the writers have attempted to answer the question: "What slice of the national 'pie' is Georgia getting?" They have attempted to demonstrate this by comparing Georgia's average annual openings and the U.S. average annual openings. The result has been a percent of Georgia share of the national occupations.

It can be noted that the average annual openings in Georgia of all workers versus the same figure for the Nation show Georgia receiving an average of 2.79 percent of all jobs in the Nation. A comparison of the job openings annually in the State and the Nation in professional, technical, and kindred workers shows Georgia's share to be 2.30 percent.

In the 1970's Georgia will have about 2.27 percent of the Nation's population. ¹² Each occupation of individual interest may be compared with the 2.30 percentage to see whether Georgia is getting its fair share of the Nation's jobs.



¹²U.S. Department of Commerce, Bureau of the Census. "Preliminary Projections of the Population of States: 1975 to 1990." <u>Current Population Reports.</u> Series P-25, No. 477, March 1972. p 4.

TABLE VI
GEORGIA OPENINGS COMPARED TO U. S. OPENINGS
1972-1980 AVERAGES

| Occupation | Georgia Average Annual Openingsª | age ngs* | U. S. Average Annual Openings ^b | Georgia/United States Percent |
|---|-------------------------------------|-------------|---|-------------------------------|
| All Workers Professional, Technical, Kindred | 44,610 9,940 | | 1,598,300 431,250 | 2.79 |
| Workers Agriculture | | А | | |
| Agricultural Engineers | 81 | | 009 | 13.500 |
| Food Scientists | 1 | | | ! |
| Arts & Scientists | | | - | |
| Psychologists | 25 | | 3,700 | 1.405 |
| Mathematicians | 55 | | 4,600 | 1.196 |
| Statisticians | 20 | | 1,400 | 3.571 |
| Geologists | 17 | | 200 | 3.400 |
| Biochemists | 82 | | 800 | 10.250 |
| Life Scientists | 80 | | 006'6 | 0.081 |
| Chemists | 211 | | 9,400 | 2.245 |
| Physicists | 98 | | 3,500 | 2.457 |
| Music & Music Teachers | | | _ | |
| Commercial Artists | 1,092 | | 17,900 | 6.101 |
| Dancers & Actresses | | | | |
| Medical Lab Assistants | 758 | | | |
| Clergy | 288 | | 12,200 | 4.820 |
| Anthropologists | | | | |
| Geographers | | | | |
| Political Scientists | 21 | | 15,400 | 0.136 |
| Sociologists | | | | |
| Historians | | | - | |

^a Appendix 8 "Total Demand" divided by eight years

^b Appendix 5. Difference of 1980 and 1970 totals divided by 10.



TABLE VI cont.
GEORGIA OPENINGS COMPARED TO U. S. OPENINGS
1972-1980 AVERAGES

| Occupation | Georgia Average Annual Openings | U. S. Average Annual Openings | Georgia/United States Percent |
|------------------------------------|------------------------------------|----------------------------------|-------------------------------|
| Business | | | |
| Accountants | 779 | 31,200 | 2 497 |
| Marketing & Research Workers | | 22.320 | |
| Personnel & Employment Workers | 233 | 10.200 | 2 384 |
| Economists | `49 | 2300 | 2 130 |
| Systems Analysts | 1 | 22.700 | 000.7 |
| Bank Officials & Security Officers | 132 | 22.800 | 620 |
| Managers | | 20.300 | 6/6: |
| Insurance & Underwriters | | | ! |
| Real Estate | 1,403 | 36,500 | 3.844 |
| Manufacture's Salesmen | - | . 000 52 | |
| Education | , | 999 | |
| College Teachers | 594 | 10 800 | |
| College Counselors | | 200,5 | 000- |
| Kindergarten & Elementary Teachers | 1,853 | 52 000 | |
| Secondary School Teachers | | 25,000 | 3.303 |
| School Counselors | 1,790 | 43,200 | 4.143 |
| Speech Pathologist & Audiologists | . 455 | 2.200 | 20 602 |
| Librarians | 255 | 11 500 | 20.062 |
| Park & Recreation Workers | | 1 700 | 7:21/ |
| Rehabilitation Counselors | | 1600 | <u> </u> |
| Environmental Design | | | ! |
| Landscape Architects | 1 | 1,350 | - |
| | | | . • |

TABLE VI cont.
GEORGIA OPENINGS COMPARED TO U. S. OPENINGS
1972-1980 AVERAGES

| | ž | | |
|---------------------------|-----------------|-----------------|-----------------------|
| | | U. S. Average | Georgia/United States |
| Occupation | Annual Openings | Annual Openings | Percent |
| Forest Resources | | | |
| Foresters, Range Managers | | | |
| Fish & Game Workers | | 2,360 | |
| Home Economics | | | |
| Dietitians) | | | |
| Food Process Managers | 49 | 9,150 | 0.536 |
| Home Economists | * | | |
| Journalism | | | |
| Newspaper Reporters | , ° F | C | 6 1 |
| Technical Writers | 2 | 000'7 | 0.528 |
| Advertising | - | | |
| Public Relations Workers | | 4,400 | - |
| Law | | 4 | |
| Lawyers | 771 | 14,000 | 1.264 |
| Pharmacy | | | |
| Pharmacists | 201 | 5,100 | 2.039 |
| Social Work | | | |
| Social Workers | 252 | 18,000 | 1.400 |
| Veterinary Medicine | 7.0 | | - |
| Veterinarians | o | 1,500 | 0.600 |
| | | | |

UNIVERSITY OF GEORGIA'S SHARE OF GEORGIA'S GRADUATES

Table VII is an attempt to point out the built-in competition the graduates of the University of Georgia must face within the State from other University System degree winners. From 1972 to 1980 the average number of graduates for the University will be about 8,134. The average number of degree winners in the University System of Georgia for the same period will be 22,368. The University's share of the degrees won in the State will be 36.36 percent. All occupational categories of graduates may be compared to this figure. A study of these statistics by any graduate may convince him that he must have a broader and more flexible view of his position in the State job market.



TABLE VII UNIVERSITY OF GEORGIA'S SHARE OF GEORGIA'S GRADUATES AVERAGE 1972-1980

| Occupation | Average University of Georgia Graduates Per Year | · Average University System Graduates Per Year ^b | University of Georgia Graduates Univ. System of Georgia Graduates |
|---------------------------|---|--|---|
| All Graduates Agriculture | 8,134 | 22,368 | 36,36 |
| Agricultural Engineers | 09 | 20 | 100.00 |
| Food Scientists | ਲ | स्र | 100.00 |
| Psychologists | 89 | . 102 | . 02 99 |
| Mathematicians | 174 | 582 | 29.90 |
| Statisticians | 22 | 38 | 57.89 |
| Geologists | 25 | 55 | 45.45 |
| Biochemists | 91 | 20 | 80.00 |
| Life Scientists | . 637 | 1,747 | 36.46 |
| Chemists | 175 | 569 | 30.76 |
| Physicists | 43 | 437 | 9.84 |
| Music & Music Teachers | 83 | 192 | 43.23 |
| Commercial Artists | 184 | 280 | 65.71 |
| Dancers & Actresses | 27 | 35 | 77.14 |
| Medical Lab Assistants | က | 29 | 4.48 |
| Clergy | 22 | 36 | 55.56 |
| Anthropologists | 81 | 34 | 52.94 |
| Geographers | 999 | 88 | 63.64 |
| Political Scientists | 223 | 505 | 41.16 |
| Sociologists | 169 | 785 | 21.53 |
| Historians | 220 | 989 | 32.07 |

Appendix 3: Average of 1973-1980 Totals.

^b Appendix 4: Average of 1972-1980 Totals.

TABLE VII cont.
UNIVERSITY OF GEORGIA'S SHARE OF GEORGIA'S GRADUATES
AVERAGE 1972-1980

| Occupation | Average University of Georgia Graduates Per Year | Average University System Graduates Per Year | University of Georgia Graduates Univ. System of Georgia Graduates |
|------------------------------------|--|--|---|
| Business | | | • |
| Accountants | . 230 | 730 | 31.51 |
| Marketing & Research Workers | 273 | 761 | 35.87 |
| Personnel & Employment Workers | 6 | 01 | 00.06 |
| Economists | 158 | 432 | 36.57 |
| Systems Analysts | 6 | 74 | 12.16 |
| Bank Officials & Security Officers | 120 | 239 | 50.21 |
| Managers | 536 | 2,520 | 11.75 |
| Insurance & Underwriters | 52 | 88 | 61.90 |
| Real Estate | 73 | 135 | 54.07 |
| Manufacture's Salesmen | 294 | 310 | 94.84 |
| Education | • | | |
| College Teachers | 237 | 285 | 83.16 |
| College Counselors | 25 | 32 | 78.13 |
| Kindergarten & Elementary Teachers | 1,000 | 3,630 | 27.55 |
| Secondary School Teachers | 901 | 2,434 | 37.02 |
| School Counselors | 160 | 402 | 39.80 |
| Speech Pathologist & Audiologists | 69 | . 280 | 24.64 |
| Librarians | 61 | 61 | 100.00 |
| Park & Recreation Workers | 44 | 144 | 30.56 |
| Rehabilitation Counselors | 32 | 65 | 49.23 |
| Environmental Design | | | |
| Landscape Architects | 57 | 74 | 77.03 |

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TABLE VII cont.
UNIVERSITY OF GEORGIA'S SHARE OF GEORGIA'S GRADUATES
AVERAGE 1972-1980

| Occupation | Average University of Georgia Graduates Per Year | Average University System Graduates Per Year | University of Georgia Graduates Univ. System of Georgia Graduates |
|--|---|---|---|
| Forest Resources | | | |
| Foresters, Range Managers Fish & Game Workers | - 181 | 203 | 89.16 |
| Home Economics Dietitians | 4 | <u></u> | 20.27 |
| Food Process Managers | 6 | . E | 50.00 |
| Home Economists | 120 | 208 | 57.69 |
| Journalism | | | |
| Newspaper Reporters | 148 | 247 | 59.92 |
| Technical Writers | 77 | 916 | 8.41 |
| Advertising | 159 | 188 | 84.57 |
| Public Relations Workers | 85 | 28 | 100.30 |
| Law | 4 | | - |
| Lawyers | 160 | 160 | 100.00 |
| Pharmacy | | | |
| Pharmacists | 207 | 207 | 100.00 |
| Social Work | | | |
| Social Workers | 145 | 271 | 53.51 |
| Veterinary Medicine | | | |
| Veterinarians | 186 | 901 | 100.00 |
| | | | |

MANPOWER NEEDS AND GRADUATES

Table VIII is an attempt to add specificity to this study in a way that may be easily examined by anyone interested in the graduates of the University of Georgia with planning and programming in mind. A break-down of the projections of Appendices 2, 3, 4, 5, and 6 is given below.

It will be noted that the selected occupations corresponding to an individual school in the University can be compared "across the board" in the following way: Openings in the State of Georgia versus Graduates of the University System versus Graduates of the University of Georgia versus Openings in the United States versus Graduates in the United States. These comparisons have been made for the years 1972-1980. The reader will note that the openings in Georgia and in the United States are constant throughout the eight year period. Table VIII presents "Average Annual Openings" for these two categories as researched in the manpower literature.



TABLE VIII UNIVERSITY OF GEORGIA MANPOWER NEEDS AND GRADIJATES

| | | | | | | | EN NEEDS A | CHARLES OF GEORGIA MANTOWER NEEDS AND GRADUATES | | | | |
|--|--|-----------|---|---------------|------|---------------------------------|------------|---|---------|-------------|-------------------|-----|
| | Average Annual | Gradi | Graduates - University | versity | Gra | Graduates University | ersity | Average Annual | L | | | |
| Occupations | Openings in State of Georgia to 1980 a | Sy. 87.77 | System of Georgia ^b 78 78-79 79 | 79.80 | 1978 | of Georgia ⁶ 1979 | 1980 | Openings in | Gradui | ates in Uni | 3 | |
| Agriculture | | | | | | | | U.S. to 1980. | | A/.0/ | 78.80 | - |
| Agricultural Engineers | 6 | 72 | 9 | - 65 | | 9 | | | | | | |
| Food Scientists | with Life Sciences | 37 | 8 | | 3 2 | 8 8 | <u> </u> | 009 | 985 | 1,028 | 1,064 | |
| Arts & Sciences | | • — | 3 | Ď | ò | 8 | 39 37 | 004 | 1 | | 1 | _ |
| Psychologists. | 25 | 113 | 121 | 28 | × | 7. | | | - | | | |
| Mathematicians | - 52 | 643 | 684 | 21.6 | 001 | . 3 | | 3,700 | 8,047 | | 8,720 | |
| Statisticians | | 200 | ξ : | 2 9 | 8 8 | <u> </u> | <u> </u> | 4,600 | 52,885 | 55,395 | 57,311 | _ |
| Ganlogists | 3 : | 9 i | 7 | 7 8 | 57 | 52 | 52 | 1,400 | 1,577 | 1,652 | 1,709 | _ |
| | <u></u> | 6 | 82 | 8 | 27 | 22 | 38 | 200 | 4 844 | | 5 250 | |
| giochemists | 82 | 22 | ឌ | 52 | 17 | 82 | 8 | 2 6 | 022. | | 0.00 | |
| Life Scientists | ~ | 1,933 | 2,057 | 2,152 | 689 | 111 | 730 | 8 6 | 165.000 | : | שושיו יייי פרי | _ |
| Chemists | 211 | 629 | 699 | 8 | 189 | 195 | 200 | 940 | 25.477 | 200,57 | 22,871 | - 3 |
| Physicists | 98 | 483 | 514 | 538 | 48 | 48 | 2 | 9 6 | 1/4/07 | | 57,50g | 2 |
| Music & Music Teachers | _ | 211 | 225 | 236 | . 8 | ? 8 | 3 8 | one's | 16,352 | _ | 17,720 | _ |
| Commercial Artists | | 20 | 2 0 | 2 6 | 9 | 3 | n S | 15,400 | 25,638 | 26,855 | 27,784 | |
| Dancers & Actreses | 260':) | 800 | 870 | 444 | 681 | 202 | 211 | 2,500 | 16,738 | 17,532 | 18,139 | |
| Medical at Assistante | | 2 | 4 | 4 5 | ဓ | က | 32 | 2,300 | l | ļ | - | |
| | 758 | 75 | 8 | 83 | ო | က | ო | 13,500 | | ! | ! | |
| | 889 | 4 | 42 | 4 | 2 | 22 | 23 | 12,200 | 24.270 | 25.422 | 26.301 | |
| Antich oppositions and a second secon | | 88 | 2 | 42 | 19 | 8 | 8 | 200 | 5 842 | 6 110 | 6 2 3 3 | |
| Geographers | _ | 86 | ই | 109 | 99 | 62 | 64 | 200 | 9300 | 000 | - 600 | _ |
| Political Scientists | 15 | 558 | 598 | 621 | 241 | 249 | 255 | | 600,0 | 900 | 150,0 | |
| Sociologists | _ | 868 | 923 | 998 | 183 | | 3 6 | 3 | 44.04 | 57,788 | 53,579 | |
| Historians | | 758 | 200 | 2 4 | 700 | 8 8 | 20 1 | 008 | 46,608 | 48,821 | 50,509 | |
| Liberal Arts | | 3 5 | 3 3 | | 238 | 240 | 252 | 1,000 | 74,644 | 78,187 | 168,08 | |
| Appendix 9. Total Description | | 5/5' | 1,461 | 1,529 | 420 | 433 | 444 | 1 | 201,738 | 211,315 | 218,623 | |
| Chirelinia of 10ter Demand divided by eight. | • | , | | | | | | | | | | _ |

- 33 -

TABLE VIII cont. UNIVERSITY OF GEORGIA MANPOWER NEEDS AND GRADUATES

| , | Average Annual | Gradu | Graduates - University | versity | Grad | Graduates University | - Asity | Average Annual | | | |
|------------------------------------|---------------------------------------|-------|------------------------|---------|-------|----------------------|----------|--------------------------|---------|----------------------------|-----------|
| | Openings in State | Sys | System of Georgia | orgie | | of Georgia | | O _p enings in | Gradu | Graduates in United States | ed States |
| Occupations | of Georgia to 1980 | 77.78 | 78.79 | 79.80 | 1978 | 1979 | 1980 | U,S, to 1980 | 77.78 | 78.79 | 79-80 |
| Business | | | | _ | | | | | _ | | |
| Accountants | 677 | 807 | 829 | 668 | 249 | 257 | 263 | 31,200 | 34,860 | 36,514 | 37,777 |
| Marketing & Research Workers | - | 842 | 968 | 937 | 295 | 305 | 312 | 2,600 | 24,012 | | 26,022 |
| Personnel & Employment Workers | 233 | = | 12 | 12 | 6 | 9 | 01 | 10,200 | 8,240 | | 8,930 |
| Economists | 49 | 479 | 209 | 533 | 171 | 176 | 181 | 2,300 | 33,315 | (') | 36,103 |
| Systems Analysts | i | 8 | 87 | 91 | 2 | 5 | 5 | 22,700 | 3,283 | 3,439 | 3,558 |
| Bank Officials & Security Officers | 132 | 265 | 282 | 295 | 130 | 135 | 138 | 22,800 | 10,316 | | 11,180 |
| Managers | - | 2,791 | 2,971 | 3,108 | 320 | 331 | 339 | 20,300 | 22,419 | 23,483 | 24,295 |
| Insurance & Underwriters | 1,187 | 93 | 66 | 호 | 22 | 23 | 09 | 21,740 | | | |
| Real Estate | 216 | 149 | 159 | 166 | 79 | 8 | \$ | 14,800 | 1,625 | 7,703 | 1,762 |
| Manufacture's Salesmen | 1 | 343 | 365 | 382 | 318 | 328 | 337 | 25,000 | 91,301 | 95,635 | 98,943 |
| Education | * , | | | | | | <u> </u> | • | | | |
| College Teachers | ~~ | 316 | 336 | 352 | 256 | 265 | 272 | 10,800 | 27,939 | 29,265 | 30,278 |
| College Counselors | # # # # # # # # # # # # # # # # # # # | 35 | 37 | 39 | 27 | 28 | 53 | 300 | | 1 | 1 |
| Kindergarten & Elementary Teachers | 1,853 | 3,464 | 3,686 | 3,857 | 1,080 | 1,115 | 1,143 | 52,000 | 210,976 | 220,992 | 228,634 |
| Secondary School Teachers | 7 | 2,690 | 2,863 | 2,996 | 974 | 1,005 | 1,031 | 38,000 | 106,848 | 92,003 | 105,760 |
| School Counselors |) | 445 | 474 | 496 | 173 | 178 | . 183 | 5,200 | 16,625 | 17,414 | 18,016 |
| Speech Pathologist & Audiologists | 455 | 309 | 329 | 344 | 74 | 11 | .62 | 2,200 | 9,656 | | 10,464 |
| Librarians | 225 | 67 | 69 | 71 | 29 | 69 | 71. | 11,500 | 11,314 | | 12,261 |
| Park & Recreation Workers | 1 | 159 | 169 | 177 | 48 | 49 | 51 | 1,700 | 2,478 | | 2,686 |
| Rehabilitation Counselors | i. | 72 | 92 | 80 | 34 | 35 | 36 | 1,600 | 1,046 | | 1,134 |
| Environmental Design | | | | | | | | | • | | |
| Landscape Architects | 1 | 88 | 8 | 86 | 61 | 63 | 92 | 1,350 | 7,564 | 7,923 | 8,197 |

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TABLE VIII cont.
UNIVERSITY OF GEORGIA MANPOWER NEEDS AND GRADUATES

| 7 | Average Annual | leni | Gradua | Graduates - University | versity | Grac | Graduates University | ersity | A vocase | | | | _ |
|------------------------------------|--------------------------------------|---------------|----------------|------------------------|---------------|------------|----------------------|--------------|-------------|--------|----------------------------|-----------|------|
| Occupations | Openings in State of Georgia to 1980 | state 1980 | Syste 77-78 | System of Georgia | rgia 79-80 | 1978 | of Georgia | 1980 | Openings in | Gradua | Graduates in United States | ed States | |
| Forest Resources | | | | | - | | | | 0000 | 8/-// | 6/-8/ | 79-80 | |
| Foresters, Range "Janagers | ł | | 225 | 239 | 250 | - <u>4</u> | 202 | | | - | | | |
| Hish & Game Workers Home Economics | | | | } | } | 3 | 707 | /07 | 7,360 | 5,263 | 5,513 | 5,703 | _ |
| Dietitians | _ | | , TO | 16 | <u>.</u> | r | Ľ | <u> </u> | | | | | |
| Food Process Managers | 49 | | 8 | 22 | 2 8 | 2 | , £ | , E | 2,300 | 1,738 | 1,821 | 1,884 | |
| Home Economists | _ | | 230 | 245 | 256 | 130 | 3 2 | 38 | 067.9 | 2003 | 24000 | 610 | |
| Journalism | ۸. | • | | _ | | | • | } | 3 | 14,227 | 14,902 | 15,418 | |
| Newspaper Reporters | ; ~ | _ | 218 | 232 | 243 | 159 | 164 | 169 | 1 650 | | _ | _ | |
| Technical Writers | ~ | | 106 | 113 | 118 | 8 | 98 | 8 8 | 0001 | 3,882 | 10,351 | 10,709 | . 34 |
| Advertising | 1 | | 202 | 221 | 231 | 172 | 177 | 182 | 000, 1 | _ | _ | _ | } _ |
| Public Relations Workers | - | | 83 | 65 | 99 | 83 | 92 | - 4 <u>6</u> | 0,400 | 1 6 | ; | ! 6 | |
| Law | | | | | - | | - | 3 | 00,00 | 2,044 | 2,141 | 2,215 | |
| Lawyers | 177 | | 172 | 176 | 182 | 172 | 176 | 182 | 900 | - | | | |
| Pharmacy | | | | | ! | | ? | 2 | 200,4 | 29,243 | 30,631 | 31,690 | |
| Pharmacists | 5 | | 223 | 230 | 236 | 223 | 230 | 226 | | - | | | |
| Social Work | | ` | ! | • | - | } | 2 | 3 | 90.6 | 1,226 | 7,569 | 7,831 | |
| Social Workers | 252 | | 300 | 320 | 334 | 55 | - 4 | 168 | 000 01 | | | - | |
| Veterinary Medicine | | | | ! | | | 5 | 3 - | 000,01 | 14,163 | 14,835 | 15,348 | |
| Veterinarians | 6 | | 115 | 119 | 122 | 115 | 119 | - 62 | 1 | | | | |
| | | | | | | | - | | | 35. | 700,3 | 071,7 | |

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UNIVERSITY OF GEORGIA MANPOWER NEEDS AND GRADUATES

| | _ | | | | | | | | - | | | Γ |
|------------------------|--------------------|--------|------------------------|--------|-----------|----------------------|--------|---------------|---------|----------------------------|-----------|----------|
| , | Average Annual | Gradua | Graduates — University | ersity | Grad | Graduates University | ersity | Average Annua | | | | <u> </u> |
| | Openings in State | Syste | System of Georgia | rgia | | of Georgia | | Orenings in | Gradua | Graduates in United States | ed States | _ |
| Occupations | of Georgia to 1980 | 74-75 | 75.76 | 76-77 | 1975 | 1976 | 1977 | U.S. to 1980 | 74.75 | 75.76 | 76-77 | |
| Agriculture | | • | | | | | | | | | _ | i |
| Agricultural Engineers | . 81 | 47 | 23 | 25 | 47 | 20 | 52 | 009 | 844 | 888 | 934 | |
| Food Scientists | with Life Sciences | 35. | Ŗ | 8 | 32 | 8 | 36 | 400 | 1 | | 1 | |
| Arts & Sciences | · | | | | | | | | _ | | | |
| Psychologists | . 52 | 91 | 86 | 505 | 65 | 39 | 72 | 3,700 | 6,919 | 7,284 | 7,600 | |
| Mathematicians | 92 | 520 | 260 | 109 | \$ | 173 | 181 | 4,600 | 45,472 | 47,870 | 50,341 | _ |
| Statisticians | 20 | E | 8 | 98 | 21 | 22 | 83 | 1,400 | 1,356 | 1,428 | 1,501 | _ |
| Geologists | 17 | 23 | 23 | 22 | 23 | 25 | 56 | 005 | 4,165 | 4,385 | 4,611 | _ |
| Biochemists | 83 | 81 | 19 | 21 | 5 | .6 | 17 | 800 | 1,522 | 1,602 | 1,685 | |
| Life Scientists . | 8 | 1,565 | 1,684 | 1,806 | 299 | 635 | 664 | 006'6 | 142,462 | 149,978 | 157,719 | _ |
| Chemists | 211 | 509 | 548 | 288 | <u>\$</u> | 174 | 182 | 9,400 | 21,906 | 23,061 | 24,252 | 35 |
| Physicists | 98 | 391 | 420 | 452 | 40 | 43 | 45 | 3,500 | 14,059 | 14,801 | 15,565 | _ |
| Music & Music Teachers | | 171 | <u>₹</u> | 197 | 82 | 83 | 87 | 15,400 | 22,044 | 23,206 | 24,405 | _ |
| Commercial Artists | 1,092 | 250 | 569 | 588 | 173 | <u>8</u> | 192 | 2,500 | 14,392 | 15,209 | 15,933 | |
| Dancers & Actresses | | 31 | ಜ | 8 | 8 | 22 | 59 | 2,300 | | . I | 1 | |
| Medical Lab Assistants | 758 | 8 | 65 | 2 | <u>ო</u> | က | e | 13,500 | - | ! | 1 | |
| Clergy | 288 | 33 | 32 | 37 | 19 | 20 | 21 | 12,200 | 20,868 | 21,969. | 23,103 | |
| Anthropologists | _ | 31 | 33 | 98 | 17 | 18 | 19 | 200 | 5,023 | 5,288 | 5,561 | _ |
| Geographers | | 79 | 82 | 6 | 25 | 22 | 28 | 200 | 5,425 | 5,711 | 6,005 | |
| Political Scientists | 21 | 452 | 486 | 522 | 210 | 222 | 232 | 200 | 42,510 | 44,753 | 47,063 | _ |
| Sociologists | | 702 | 156 | 811 | 159 | 168 | 176 | 800 | 40,075 | 42,189 | 44,367 | |
| Historians | _ | 614 | 199 | 902 | 202 | 219 | 229 | 1,000 | 64,181 | 63,633 | 71,054 | _ |
| Liberal Arts | | 1,112 | 1,192 | 1,283 | 365 | 386 | 404 | 1 | 173,459 | 182,610 | 192,036 | _ |
| | | | | | | | | | | | 1 | |

TABLE VIII cont. UNIVERSITY OF GEORGIA MANPOWER NEEDS AND GRADUATES

| | Average Annual | Gradu | Graduates University | ersity | Grad | Graduates University | ersity | Average Annual | | | |
|------------------------------------|--------------------|-------|----------------------|--------|----------|----------------------|--------|----------------|---------|----------------------------|-----------|
| | Openings in State | Syst | System of Georgia | rgia | | of Georgia | | Openings in | Gradua | Graduates in United States | ed States |
| Occupations | of Georgia to 1980 | 74.75 | 75.76 | 76-77 | 1975 | 1976 | 1977 | U.S. to 1980 | 74.75 | 75.76 | 76-77 |
| Business | | | | | | | | | | | |
| Accountants | 779 | 654 | 703 | 754 | 216 | 229 | 240 | 31,200 | 29,973 | 31,554 | 33,183 |
| Marketing & Research Workers | | 682 | 733 | 787 | 257 | 272 | 284 | 2,600 | 20,646 | 21,735 | 22,857 |
| Personnel & Employment Workers | 233 | თ | 10 | 01 | ∞ | თ | 6 | 10,200 | 7,085 | 7,459 | 7,844 |
| Economists | 49 | 388 | 417 | 447 | 148 | 157 | 164 | 2,300 | 28,645 | 30,156 | 31,712 |
| Systems Analysts | | 8 | 7.1 | 92 | <u>ნ</u> | თ | 6 | 22,700 | 2,823 | 2,972 | 3,125 |
| Bank Officials & Security Officers | 132 | 214 | 231 | 247 | 114 | 120 | 126 | 22,800 | 8,870 | 9,338 | 9,820 |
| Managers | - 1 | 2,260 | 2,432 | 2,609 | 279 | 295 | 308 | 20,300 | 19,276 | 20,293 | 21,341 |
| Insurance & Underwriters | 1,187 | 92 | 81 | 87 | 49 | 52 | . 55 | 21,740 | 7 | | ~ |
| Real Estate | 216 | 121 | 130 | 139 | 69 | 73 | 9/ | 14,800 | 865'1 | 1,4/1 | , y y |
| Manufacture's Salesmen | | 278 | 299 | 321 | 276 | 293 | 306 | 25,000 | 78,503 | 82,644 | 86,910 |
| Education | | , | | | | | _ | | | | |
| College Teachers | ~ | 25.6 | 275 | 295 | 223 | 236 | 247 | 10,800 | 24,023 | 25,290 | 26,596 |
| College Counselors | 7 | 38 | 31 | ೫ | 24 | 22 | 92 | 200 | 1 | | 1 |
| Kindergarten & Elementary Teachers | 1,853 | 2,804 | 3,018 | 3,237 | 936 | 995 | 1,040 | 52,000 | 181,402 | 190,972 | 200,830 |
| Secondary School Teachers | 300 | 2,178 | 2,344 | 2,515 | 847 | 897 | 938 | 38,000 | 91,870 | 96,717 | 101,709 |
| School Counselors | 08/1 | 361 | 388 | 416 | 150 | 159 | 166 | 5,200 | 14,295 | 15,049 | 15,826 |
| Speech Pathologist & Audiologists | 455 | 250 | 269 | 588 | 65 | 69 | 72 | 2,200 | 8,303 | 8,741 | 9,192 |
| Librarians | 225 | 23 | 61 | 8 | 8 | 61 | 2 | 11,500 | 9,728 | | 10,770 |
| Park & Recreation Workers | 1 | 128 | 138 | 148 | 45 | 4 | 46 | 1,700 | 2,131 | 2,243 | 2,359 |
| Rehabilitation Counselors | - | 88 | 62 | 29 | 8 | 32 | 33 | 1,600 | 899 | 947 | 966 |
| Environmental Design | | - | | | | | _ | | | | |
| Landscape Architects | | . 7 | 77 | 83 | 8 | 22 | 20 | 1,350 | 6,504 | 6,847 | 7,200 |

TABLE VIII cont. UNIVERSITY OF GEORGIA MANPOWER NEEDS AND GRADUATES

| | | - | | | | | | | | | | |
|---|----------------------------------|----------|---|-------------|----------|----------------------|--------|----------------|-----------------|--|--------------------|----|
| | Average Annual Openings in State | Gradu | Graduates - University System of Georgia | versity | | Graduates University | ersity | Average Annual | | | | |
| Occupations | of Georgia to 1980 | 74.75 | 75.76 | 76-77 | 1975 | 1976 | 1977 | U.S. to 1980 | Gradua 74-75 | Graduates in United States 74-75 75-76 76-77 | ed States 76-77 | |
| Forest Resources | | - | | | | | | | | | | |
| Foresters, Hange Managers Fish & Game Workers | - | 182 | 196 | 210 | 170 | 180 | 189 | 2.360 | 4 F2F | 732. 7 | 9 | |
| Home Economics | * | | | | - | | | | | | 0.0% | |
| Dietitians | _ | 12 | 13 | 4 | 4 | 4 | _ | 2000 | | | | |
| Food Process Managers | 49 | 18 | 6 | : 8 | · α | - σ | , 0 | 2,300 | 1,495 | 1,5/3 | 1,655 | |
| Home Economists | | 201 | 215 | 230 | 13 | 120 | 2, 2, | 06.7 | 484 | 016 | 536 | |
| Journalism | • | | | - | ? | ? | 3 | 90,0 | 12,233 | 12,878 | 13,543 | _ |
| Newspaper Reporters | , | 177 | 190 | 204 | 139 | 147 | ភ្ | • | | | | - |
| Technical Writers | E/1 \(\frac{1}{2} \) | 8 | 92 | 8 | | 77 | 3 8 | 060, | 8,497 | 8,945 | 9,406 | 37 |
| Advertising | - | <u>x</u> | 181 | 20 | 150 | ָּהָ מַ | 36. | 000, | - | _ | _ | |
| Public Relations Workers | | ቖ | 28 | 9 | Z | 88 | 8 8 | 9,400 | 1 757 | יי ר | 1046 | |
| Law | | | | | | | | | - | 000 | D , | _ |
| Lawyers | 171 | 150 | 159 | 166 | 150 | 159 | | 200 11 | 34.10 | 76.430 | | |
| Pharmacy | | | | | - | } | } | 200,4 | 441'C7 | 76,470 | 27,836 | |
| Pharmacists | ই | \$ | 506 | 217 | 75 | 200 | 214 | | - | ,,,, | | |
| Social Work | | | | - | | } | : | 3 | 0,213 | , , | 6/8/9 | |
| Social Workers | 252 | 300 | 320 | 334 | 136 | 144 | 5 | 900 | - | 000 | 9 | |
| Veterinary Medicine | | | | | <u>}</u> | | 3 | 0000 | 17,17 | 12,820 | 13,482 | _ |
| Veterinarians | 6 | 8 | 901 | Ξ | - 20 | 5 | | 2 | 000 | | , | |
| | | | | | | - : - | : | 3 | 000, | 1111 | 000 | _ |

TABLE VIII cont.
UNIVERSITY OF GEORGIA MANPOWER NEEDS AND GRADUATES

| | | | | | | | | • |
|------------------------|--------------------------------------|----------------------------|------------------|--------------|----------------------|--------------------------|--------------------|----------------------------|
| | Average Annual | Graduates University | University | Graduate | Graduates University | Average Annual | | |
| Occupations | Openings in State of Georgia to 1980 | System of Georgia 72.73 7. | Georgia 73.74 | of G 1973 | of Georgia 1974 | Openings in U.S. to 1980 | Graduates in 72.73 | Graduates in United States |
| Agriculture | | | | | | | | |
| Agricultural Engineers | 8 | 41 | 44 | 17 | | Š | | - |
| Food Scientists | with Life Sciences | . K | ; <u>e</u> | - 0 | - | 000 | 3 | 795 |
| Arts & Sciences | | Ş | 3 | 97 | 90 90 90 | 400 | | <u> </u> |
| Psychologists | 25 | 79 | | ç | - | 2 200 | 6 26 7 | , c |
| Mathematicians | 55 | 449 | 477 | . 142 | 15.7 | 20/5 | 107'0 | 810,0 |
| Statisticians | 26 | 27 | 28 | ά | 7 0 | 4,600 | 47,124 | 42,839 |
| Geologists | 17 | 43 | A5. | 2 5 | <u> </u> | 99, | 062,1 | 1,278 |
| Biochemists | 82 | <u> 1</u> | 9 | 3 5 | . 72 | 000 | 3,767 | 3,924 |
| Life Scientists | σ. | 1.349 | 2.0 | 22.2 | † C | 900 | 1,3/6 | 1,434 |
| Chemists | 211 | 439 | 467 | 142 | 900 | 006,6 | 128,842 | 134,215 |
| Physicists | 88 | 337 | 358 | <u>7</u> | 3 8 | 9,400 | 19,811 | 20,637 |
| Music & Music Teachers | } | 148 | 0 1 | S 6 | ر در | 3,500 | 12,715 | 13,246 |
| Commercial Artists | | 9 6 | /61 | 89 | 73 | 15,400 | 19,936 | 20,768 |
| | 760'1 | 216 | 529 | 150 | 161 | 2,500 | 13,015 | 13,558 |
| Dancers & Actresses | | 27 | 8 | 22 | 24 | 2,300 | 1 | |
| Medical Lab Assistants | 758 | 25 | 22 | 2 | m | 13,500 | ~ | l |
| Clergy | 288 | 28 | 8 | 16 | 17 | 12,200 | 18 872 | 19 660 |
| Anthropologists | | 22 | 88 | 14 | 16 | 200 | 4 543 | 4 732 |
| Geographers | | 89 | 72 | 45 | 49 | 200 | 4 906 | 7 110 |
| Political Scientists | 21 | 390 | 414 | 182 | 195 | 002 | 38 446 | 40.050 |
| Sociologists | | 909 | 644 | 138 | 148 | 008 | 36 243 | 37 755 |
| Historians | _ | 230 | 283 | 179 | 193 | 5 6 | 58.045 | 50,75 |
| Liberal Arts | 1 | 928 | 1,019 | 316 | 340 | 8 | 156 875 | 163 419 |
| | | | | | | |) .) () | |

TABLE VIII cont. UNIVERSITY OF GEORGIA MANPOWER NEEDS AND GRADUATES

| | Average Annual | Graduatas — University | University | Graduates University | University | Awrage Annual | | |
|------------------------------------|---|----------------------------|--------------------|----------------------|---------------|-----------------------------|--------------------|---|
| Occupations | Openings in State of Georgia to 1980 | System of Georgia 72-73 | l Georgia 73-74 | of Georgia 1973 | orgia 1974 | Openings in U.S. to 1980 | Graduates in 72-73 | Graduates in United States 72-73 73-74 |
| Business | | | | | | | | |
| Accountants | 779 | 564 | 299 | 88 | 201 | 31,200 | 27,107 | 28,238 |
| Marketing & Research Workers | 1 | 288 | 625 | 222 | 239 | 2,600 | 18,672 | 19,451 |
| Personnel & Employment Workers | 233 | & | 80 | | & | 10,200 | 6,408 | 6,675 |
| Economists | | 334 | 355 | 129 | . 138 | 2,300 | 25,906 | 26,987 |
| Systems Analysts | 1 | 22 | 8 | 7 | & | 22,700 | 2,553 | 2,660 |
| Bank Officials & Security Officers | 132 | 184 | 196 | 8 | 901 | 22,800 | 8,022 | 8,357 |
| Managers | 1 | 1,949 | 2,071 | 242 | 260 | 20,300 | 17,433 | 18,161 |
| Insurance & Underwriters | 1,187 | 65 | 69 | 43 | 46 | 21,740 | 7 | 1434 |
| Real Estate | 216 | \$ | 111 | 99 | 2 | 14,800 | ₹ - | <u> </u> |
| Manufacture's Salesmen | 1 | 539 | 254 | 240 | 258 | 25,000 | 70,998 | 73,489 |
| Education | | | | | | | | |
| College Teachers | - | 220 | 235 | 183 | 508 | 10,800 | 21,726 | 22,632 |
| College Counselors | # 6 | × | 8 | 21 | 22 | 200 | 1 | 1 |
| Kindenarten & Elementary Teachers | 1,853 | 2,418 | 2,570 | 814 | 876 | 52,000 | 164,059 | 1,709,021 |
| Secondary School Teachers | | 1,878 | 1,997 | 734 | 790 | 38,000 | 83,087 | 86,553 |
| School Counselors | 06/, | 311 | 331 | 130 | 140 | 5,200 | 12,928 | 13,467 |
| Seech Pathologist & Audiologists | 455 | 216 | 229 | 88 | 99 | 2,200 | 7,509 | 7,822 |
| Librarians | 225 | 26 | 25 | 26 | ž | 11,500 | 8,798 | 9,165 |
| Park & Recreation Workers | 1 | 111 | 118 | 88 | 39 | 1,700 | 1,927 | 2,008 |
| Rehabilitation Counselors | • | 20 | 83 | 8 | 27 | 1,600 | 813 | 847 |
| Environmental Design | | | | | | | | |
| Landscape Architects | | 61 | 92 | 46 | 23 | 1,350 | 5,883 | 6,127 |
| | | | | | | | | |

TABLE VIII cont. UNIVERSITY OF GEORGIA MANPOWER NEEDS AND GRADUATES

| To make the second seco | Average Annual Openings in State | Graduates Universit | duates — University | Graduates University of Georgia | University | Average Annual Openings in | Graduates in | Graduates in United States |
|--|-------------------------------------|---------------------|---------------------|---------------------------------|------------|-------------------------------|------------------|----------------------------|
| Occupations | of Georgia to 1980 | 72-73 | 73-74 | 1973 | 1974 | U.S. to 1980 | 72.73 | 73.74 |
| Forest Resources | | | | | | | | |
| Foresters, Range Managers | - | 157 | 167 | 148 | 159 | 2,360 | 4,092 | 4,203 |
| Fish & Game Workers | , | | | | | | | |
| Home Economics | | • | • | • | • | 600 | 1361 | 1 408 |
| Dietitians | _ | 2 | F | 4 | . | 7,300 | 100'1 | 9 (|
| Food Process Managers | 49 | 4 | 15 | , | ∞ | 150 | 438 | |
| Home Economists | _ | 161 | 171 | 8 | 106 | , 002'9 | 11,063 | 11,525 |
| Journalism | | | | | | | | • |
| Newspaper Reporters . | - | 152 | 162 | 120 | 129 | 1,650 | 7 684 | 8.025 |
| Technical Writers | ₹ ~ | 74 | 79 | <u>ස</u> | 89 | 1,000 | | |
| Advertising | 1 | 145 | 154 | 130 | 139 | 5,400 | 1 | 1 |
| Public Relations Workers | • | 47 | 26 | 47 | 20 | 4,400 | 1,589 | 1,656 |
| Law | | | | | | | | |
| Lawyers . | 171 | 130 | 140 | 130 | 140 | 14,000 | 22,739 | 23,688 |
| Phermacy | | | | | | | 9 | 7 |
| Pharmacists | ፮ | 891 | 181 | 168 | 181 | 5,100 | 810,c | tco'c |
| Social Work | | | , | , | | | | : |
| Social Workers | 252 | 506 | 223 | 118 | 127 | 18,000 | \$10 <u>,</u> 11 | 2/4: |
| Veterinary Medicine | | | 1 | 1 | . , | | | • |
| Veterinarians | 6. | 87 | <u> </u> | 84 | . 933 | 00¢'1 | 020'1 | 160'1 |

UNDERGRADUATE MAJOR 1960-1970 VERSUS FULLTIME EMPLOYMENT

It is the contention of the Project Team that although it has assigned various major fields in the University to singular and specific occupations, it is aware that every profession includes people from a variety of backgrounds. The research has shown that the above is true; there is, however, a close correspondence between major-studied and occupation in many fields.

The National Opinion Research Center in its 1964 study of student patterns concluded that field switches between college majors and jobs do occur but this is more the exception than the rule. 13

Dr. Laure M. Sharp has demonstrated the conclusions in a table of broad occupational groupings. The table is included as Appendix 9 of this study. Following his lead we have taken the responses of 470 undergraduate majors of 1960 to 1970 randomly selected from the Alumni files of the University of Georgia. The majors of these graduates were compared with their full time employment in 1971-1972 in Table IX. Although Table IX is crude and the broad occupational groupings include jobs at many levels, the Table does convey some notion of how graduates sort themselves out along occupational lines with respect to the undergraduate field. Where the undergraduate major implies a relatively specialized training such as in business or in education, the full time employment percentages in the respective field are relatively high; in the case of education majors, 65 percent were employed as teachers; 58 percent of the business majors were employed in business and managerial positions.

According to Sharp (p. 11), an important consequence of taking a job unrelated to one's training has to do with the kind of job this will be. It is likely to be a nonprofessional job rather than a job in another profession. It is especially noteworthy to look at the social science majors: a relatively large proportion were employed in business and in professionally marginal jobs. 15 Data on graduates of the University of Georgia, 1960-1970 in the social sciences favor this view. We find that 47 percent of the undergraduate majors in the fields of political science, psychology and sociology were employed in business, managerial and sales occupations.



¹³ Laure M. Sharp, Education and Employment, (Baltimore: The Johns Hopkins Press, 1970). p. 7.

¹⁴Lin Tisdel and others, <u>Measuring One University Output: A Survey of Undergraduate Degree Holders From the University of Georgia From the Classes of 1960-1970.</u> Office of Program, Planning and Analysis, University of Georgia (Athens: University of Georgia) pp. 3-4.

^{15&}lt;sub>Sharp, op. cit. p. 11.</sub>

While business may actually be a satisfactory or deliberately chosen occupation, evidence from other studies suggests that a business career is a reluctant choice for many students who were not business or economics majors. 16



^{16 &}lt;u>Ibid.</u> p 12.

TABLE IX UNIVERSITY OF GEORGIA UNDERGRADUATE MAJOR 1960-1970 EMPLOYED FULL TIME 1971-1972

| | | | | | Occupation | Occupation in 1971-72 | | Isnoi | | isn | | | |
|------------------------|----------------------|---------------------|--------------------------|---------------|------------|-----------------------------|-----------------------------|-------------------------------|------------------|-------------------------------|-----------|-------|---|
| Undergraduate Major | Natural Scientist | Social Scientist | rsinamuH Isnoissetor9 | Health Island | Teacher | કે રક્કતાંદાઇ lsivegansM | S lerutluoirgA Yrtsero-T | Other Professi Re Military | Clerical & Sales | oizastor4-noM rb2 staubs12 | 19WERA ON | Total | |
| Natural Sciences | .298 | | .017 | .140 | .087 | .157 | | .122 | 710. | .052 | .105 | .995 | _ |
| Social Sciences | | 980 | .051 | 890: | 890: | .344 | 1 | .137 | 460. | 980: | .120 | 96. | _ |
| Humanities & Arts | i i | ! | .140 | 1 | .218 | .296 | 1 | .140 | .062 | .83 | 601. | 966: | _ |
| | ! | ł | 1 | 86 | ! | - | 1 | 1 | | .150 | | 1.00 | |
| Agriculture & Forestry | .075 | | | ļ | 060 | .212 | .363 | .151 | .015 | .075 | .015 | .997 | |
| Business & Commerce | .016 | 910. | .016 | i | .048 | .576 | 800. | .256 | .024 | .016 | .024 | 1.000 | |
| Education | .024 | .024 | | .024 | .654 | .037 | ! | .024 | 690. | .024 | .135 | 995 | _ |
| Home Economics | .111 | | | 1 | .555 | | .111 | | .055 | | .166 | 966 | _ |
| , | .057 | .018 | .030 | .063 | .200 | .280 | .055 | .139 | .032 | 044 | 720. | 995 | |

OCCUPATIONAL SUGGESTIONS

In its projection to 1980, the Project Team has been unable to give relevant data on degree winners in the Liberal Arts. Yet from past experience almost 5 percent of the University's graduates have majored in Foreign Languages, English, English Literature, Classics, Speech, etc.

A summary of recent U.S. Labor Department literature ¹⁷ offers occupational suggestions directly applicable to liberal arts majors. There is a wide variety of employment available in both the public and private sectors. However, the liberal arts student should develop career goals as early as possible. He need not necessarily specialize in one occupational area; he should know his vocational interest and talents and realistically evaluate his chances for obtaining a job in the field of his interests. The liberal arts student should be aware that employers, especially those hiring for nontechnical jobs, look closely at extracurricular activities, leadership roles, interests and abilities.

The following is a group of occupational areas which are generally open to liberal arts graduates. For most of the jobs, a pleasing personality, a broad education and ability to learn are more important than any specific academic preparation.

Administration: Liberal arts graduates who wish to enter administrative work may find positions as administrative assistants, workers who help executives by coordinating and directing office programs, records control or budget preparation and control.

Advertising: Various types of jobs are available in advertising: advertising copywriters, media directors, production managers, research directors, artists and layout men, art buyers, account executives or advertising managers.

Art - related jobs: Museum, and art galleries have a limited number of positions for those who can combine a bachelor's degree with artistic interests.

Banking: A wide range of positions is available in banking. Many large city banks have well-organized officer training programs open to liberal arts graduates. Some of these positions include loan officers, trust officers, branch bank managers, correspondent bank officers or international officers.

Book Publishing: In general, entry-level jobs are either in the editorial or sales departments of publishing houses; jobs in sales outnumber those in editorial work.



¹⁷Gloria Stevenson, "Putting a Bachelor of Arts Degree to Work," Occupational Outlook Quarterly, Vol. 15, No. 4, Winter 1971. pp. 3-12.

Computer Programming: Some organizations hire liberal arts graduates for training courses in computer programming. Employers look for trainees having the aptitude for logical thinking and exacting analysis.

Industrial Traffic Management: First jobs are often in shipping rooms or in general traffic offices. Experience in these offices leads to more technical work such as analyzing transportation costs.

Insurance: Before new agents sell, they usually receive a few weeks or months of training at insurance company home offices or at the agencies and brokerage firms where they will be working.

Magazine Publishing: Entry-level positions existing on larger and better known magazines are for editorial secretary, editorial assistant and editorial researcher. Jobs with trade magazines are more numerous and competition is less fierce.

Newspaper Reporting: Many beginners work on weekly or small daily newspapers where they are hired as general reporters. Others start on large city papers as reporter trainees or copy boys or girls.

Personnel Administration: Recruiters for these jobs look for graduates who have a better-than-average ability to work with people and who can also speak and write effectively.

Public Relations: Specific duties may include writing pamphlets or newspaper and magazine articles, participating in community affairs, planning conventions, writing speeches for company officials, or arranging events designed to spark favorable publicity. All types of organization are included.

Purchasing: The beginner in the purchasing field must spend considerable time learning about his employer's operations and purchasing procedures. Following the initial training period, the trainee may become a junior buyer of standard catalog items.

Sales: Manufacturers sales representatives sell mainly to other businesses; securities salesmen furnish customers with information about the advantages and disadvantages of various types of investments.

Government: Many liberal arts graduates work for state, local and federal government agencies. Occupational fields frequently include personnel administration, program administrators, computer programming, writing and editing, social work, research, planning, banking, and investigatory, and regulatory work.



This list does not include all opportunities open to liberal arts graduates but offers a summary of interesting and promising fields. Detailed information can be found in the 1970-71 editions of the Occupational Outlook Handbook and the Occupational Outlook for College Graduates.



METHODOLOGY

In an effort to produce a viable and meaningful manpower study for the University of Georgia, the Project Team has followed one overriding policy: Base all decisions and projections on the most recent data and recognized authority. The Project Team will attempt to demonstrate this policy in the description of methodology to follow:

Three major critical decision-areas of this study:

- 1. Occupations relevant to University of Georgia graduates and selected for this study.
- 2. Major fields in the University and their relationship to the selected occupations.
- 3. Data series projected to 1980.
 - A. Estimated graduates:
 - (1) University of Georgia.
 - (2) University System of Georgia.
 - (3) Aggregate United States.
 - B. Estimated employment:
 - (1) State of Georgia.
 - (2) United States.
- 1. U.S. Labor Department in its <u>Occupational Outlook Quarterly</u>, Winter 1971, had determined 91 occupations that require a bachelor's degree, graduate work or first professional degree. These 91 occupations were the basis for selecting the final 64 occupations considered in this report. A few occupations requiring college work but not a bachelor's degree were selected because they corresponded directly to major fields at the University of Georgia. Examples of these were insurance agents, real estate agents, or medical lab workers.
- The Higher Education General Information Survey (HEGIS) reports for the years 1967-1968, 1968-1969, 1969-1970, 1970-1971, 1971-1972 were studied to determine the major fields of University of Georgia graduates. The Project Team then matched these major fields with the occupations selected for the study. When questions arose as to the correspondence of the major field to a selected occupation, the "training and qualifications" section of the Occupational Outlook Handbook 1972-1973 and the draft, Handbook for Projecting Employment by Occupation for States and Major Areas, 1970 were researched. In some cases,

academic advisors were consulted as to the correspondence of a major field and a selected occupation. Winners of bachelors, masters, doctorate, and professional degrees were classified together in selected occupations unless otherwise specified. Refer to Appendix 1.

3. In general, data series projections for graduates to 1980 were obtained by means of a regression equation. ¹⁸ The particular equation used was:

$$\hat{Y} = b_1 x_1 + b_0$$
where
$$b_1 = \frac{N \sum x_Y - \sum x \sum y}{N \sum x^2 - (\sum x)^2}$$

$$b_0 = \overline{y} - b_1 \overline{x}$$

A. Estimated Graduates:

(1) University of Georgia Graduates.

In particular, University of Georgia graduates for the calendar years 1965 to 1972 were compared with U.S. college enrollment figures for the calendar years 1965 to 1972. The University of Georgia figures were obtained from the Fact Book, 1971, University of Georgia and from data obtained from the Registrar's Office of the University of Georgia on the number of University graduates in 1972.

Data concerning enrollment in the United States were obtained from "Current Population Reports", January, 1972¹⁹ Information in this same publication projected the U.S. enrollment to 1980. Series C2 was selected since it reflected a moderate increase in enrollment and seemed to fit best the information available on college enrollment to 1980.²⁰ The above cited regression method was used to determine the projected total number of graduates per year to 1980. Refer to Appendix 3.

Western Interstate Commission for Higher Education, 'Western College Vacancies Zoom, Applications Off: WICHE Survey." Reports on Higher Education, Vol. XVIII, June-July, 1972. No. 243, p. 1,2.



¹⁸Gene Glass and Julian Stanley, <u>Statistical Methods in Educational Psychology</u>, (Englewood Cliffs, N.J.: Prentice Hall, Inc., 1970.) p. 137.

^{19&}quot;Projections of School and College Enrollment: 1971-2000." Series P-25, No. 473, op. cit. p. 25.

The University of Georgia HEGIS (<u>Higher Education General Information Survey</u>) reports were studied for the years 1967-68, 1968-69, 1969-70, 1970-71, 1971-72 to obtain the number of graduates per year in each occupation. The percent of the total graduates for the five year period was calculated in each occupation. For example, during the years 1967-72, 2.149 percent of the graduates of the University of Georgia majored in chemistry, 2.833 percent majored in accounting, etc. With the data, estimated University of Georgia graduates in each occupation were generated from 1973 to 1980. Refer to Table VIII or Appendix 3.

(2) University System of Georgia Graduates.

The total number of graduates for the University System of Georgia was calculated in a similar fashion. The total graduates in the University System were compared with the graduates in the United States for the fiscal years, 1964 to 1971. University Systems graduates data were obtained from the published Annual Report University System of Georgia.

Data concerning graduates of the United States for the fiscal years 1964 to 1971 were obtained from the Department of Health, Education, and Welfare document Projections of Educational Statistics to 1980-81. The same publication projected United States graduates to 1980. The regression method cited above was used to determine the projected total number of graduates per year to 1980. Refer to Appendix 4.

Reports to the State of Georgia Board of Regents were obtained directly from the Board of Regents for the years 1968-69, 1969-70, 1970-71. The reports provided detailed information on the major fields of graduates in the University System. The percent of the total graduates for the three year period was calculated in each occupation. The University System graduates in each occupation were projected from 1972-1980. Refer to Table VIII or Appendix 3.

(3) Aggregate United States Graduates.

The projected aggregate of graduates in the United States for the fiscal years 1972 to 1980 was obtained from Projections of Educational Statistics to

Projections of Educational Statistics to 1980-81, No. (OE) 72-99, op.cit. p. 43.



1980-81.²² Data on graduates in the individual occupations were obtained from the Department of Health, Education, and Welfare publications, <u>Earned Degrees Conferred</u>, 1967-68, 1968-69, 1969-70. These three publications are the most recent, containing the specific information needed for this study. The percent of the total graduates for the three fiscal years was again calculated in each occupation. The aggregate of U.S. graduates in each occupation was projected from 1972 to 1980. Refer to Table VIII or Appendix 6.

B. Estimated employment:

(1) State of Georgia.

All projections concerning the estimated employment in the State of Georgia were developed and generated from the recent publication of the Georgia Department of Labor, Georgia: Jobs for the Future, 1971. The first step in the process of our projections was to mesh the selected occupations of this study with the occupations studied in the Georgia Department of Labor report. The correspondence was not seen to be a direct one in all cases. The endeavor has been facilitated through the cooperation of Maria M. Mallet, Chief, Manpower Resources, State of Georgia. Ms. Mallet provided her own views on how we could mesh the occupation titles of the Bureau of Labor Statistics with the occupation titles of the Georgia publication. She also suggested two documents for our research — The U.S. Labor Department Draft Publication, Handbook for Projecting Employment by Occupation for States and Major Areas and Conversion Table; Bureau of the Census — Dictionary of Occupational Titles, 1970. Many of the questions of the Project Team were answered by researching these documents. Refer to Appendices I and II.

The derivation of the projection in each Georgia occupation was developed in the following manner: In the publication Georgia, Jobs for the Future there are tables indicating "Expansion and Replacement Needs by Occupation in Georgia from 1967-1975." Refer to Appendix 8. "Expansion Needs," "Replacement Needs" and "Total Demand" of employees are projected for the years 1967-1975. The Project Team postulated that the assumptions on which these projections were developed would hold true to 1980. In fact, the Georgia study states: "The



^{22&}lt;sub>1 bid.</sub> 9 43.

manpower forecasts in the Georgia study have been made within the framework of the assumptions underlying the national manpower projection to 1980."²³ Thus, the average annual openings 1970-1980 in Georgia (Table III) were generated by dividing the 1967-75 projections by eight, producing average *annual* openings. In developing Table III, the Project Team followed the form of the Bureau of Labor Statistics publication Occupational Manpower and Training Needs.²⁴

Having determined the average annual expansion needs and knowing the estimated employment in the State of Georgia for 1975 from the same Georgia Labor Department document, the writers generated the yearly total employment in each occupation by adding the average annual expansion need five times to get to 1980 and subtracting the same figure over and over again to get back to 1970. Refer to Appendix 5.

(2) United States.

The main sources in the generation of the working tables in this case were the two Bureau of Labor Statistics publications: Occupational Outlook Quarterly, Spring, 1972, and Occupational Manpower and Training Needs, 1971. From the former document the Project Team obtained the "Estimated employment in the U.S. 1970." In the latter document the projected requirements for 1980 were obtained. The difference in the totals indicated the "Employment change in the U.S." for the ten year period. With this figure the average annual employment change was calculated. By adding this annual figure to the 1970 estimated employment figure over and over again, ten times, the writers determined each occupation for each year of the 70's. Refer to Appendix 5.

In Table II, the average annual openings 1970-1980 have been included. Again the general form of the Tables in the publication, <u>Occupational Manpower</u> and <u>Training Needs</u>, 1971, was used.²⁴

Having obtained the total average annual openings 1970-1980 from the Occupational Outlook Quarterly, Spring 1972, for each occupation and having calculated the average annual employment change 1970-1980, the writers determined the average annual replacement needs for the ten year period by a subtraction process.

Occupational Manpower and Training Needs, op. cit. pp. 67-74.



²³Georgia Jobs for the Future, op. cit. p. 3.

CONCLUSION

Having followed the methodology outlined in the last section of the study and based on most recent available statistics, we have brought together the highlights of the growth in the number of graduates and occupations, concentrating on Georgia and relating to the nation as a whole.

It must be emphasized again that the outlook, the indicated manpower needs of University graduates and the tangent suggestions have been extrapolated from present available information. Tommorrow's changes can change the scenario.

Clark Kerr in concluding his "point" on "Policy Concerns of the Future" as a result of the Carnegie Commission made a remark appropriate also to conclude this study: "Predictions and prescriptives are much easier to make when we have fairly clear trends and definite information about what affects those trends. In higher education, the many uncertainties make predictions hazardous at the present time."²⁵

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²⁵Clark Kerr. "Policy Concerns for the Future" in <u>The Expanded Campus</u> (ed. by) Dyckman W. Vermilye (Washington: Jossey-Bass, Inc., 1972) p. 20.

APPENDIX

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APPENUIX 1

CLASSIFICATION IN THE STATE OF GEORGIA AND IN THE UNITED STATES UNIVERSITY OF GEORGIA HAJOR FIELDS GROUPED BY OCCUPATIONAL

| Mathematics—Statistics—Geology—Biochemistry—Plant Pathology, General Botany, Plant Pathology, Anatomy, Entomology, Bacteriology, Pathology, Undergraduate Psychology Chemistry—Physics—Music Education—Art—The Technicians—Medical Lab Technicians—Psychology (Graduate)—Psychology (Graduate)— |
|---|
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- 53 -

APPENDIX 1 continued

ARTS & SCIENCES continued

| | GEORGIA JOBS - Jobs for the Future | -None | |
|------------------|--|---|------------------|
| U.S. OCCUPATIONS | | | |
| MAJOR | Foreign Languages, Latin, General English, T | English Literature, Comparative Literature. | Classics, Speech |

BUSINESS

| GEORGIA JOBS - Jobs for the Filting | Accountants & Auditors | Personnel & Labor Relations | Economists | | |
|-------------------------------------|--------------------------------|---|--|---|--|
| U. S. OCCUPATIONS | | Employment Counselors | Public Relations Workers Economists | —————————————————————————————————————— | 1 ! |
| Accounting | Marketing, International Trade | Relations———————————————————————————————————— | Fublic Relations Economics, Business Economics, Agricultural Economics | Business Systems——————————————————————————————————— | Insurance ———————————————————————————————————— |

APPENDIX 1 continued

EDUCATION

| MAJOR | U. S. OCCUPATIONS | GEORGIA JOBS Jobs for the Future | |
|---|-------------------------------------|---|----|
| All Doctorates in Education | College & University Teachers | College Teachers | |
| All Fine Arts Doctorates | | | |
| All Doctorates in Foreign Language | | | |
| All Doctorates in Letters | | | |
| All Doctorates in Social Science | | | |
| Student Personnel | College Career & Planning Counselor | | |
| Elementary Education | Kindergarten & Elementary | Elementary Teachers | |
| Secondary Education | | | |
| Early Childhood Education | | | |
| Reading Education | | | |
| Education, Media | | - | |
| Visiting Teacher | | | |
| Specialist Education | | • | |
| Exceptional Children | | 55 | 55 |
| Learning Disability, | - | | _ |
| Emotionally Disturbed | | | |
| Mentally Retarded | | | |
| Math Education, Science Education, | Secondary School Teacher | Secondary Teachers | |
| Physical Education, Driver & Secondary | | | |
| Education, Health Education, Business & | | | |
| Commercial Education, Industrial Arts, | | | |
| Agricultural Education, Home Economics | | | |
| Education, Social Science Education, Trade | _ | | |
| & Industrial Education, Adult Education, | | | |
| Junior High Education, Education Administration | · · | | |
| Education Supervision, Art Education, Safety | | • | |
| Education, Physical Science Education | | | |
| Counseling & Guidance | — School Counselors | | |
| Educational rsychology | | | |

EDUCATION

| GEORGIA JOBS - Jobs for the Future | Librarians None | | GEORGIA JOBS — Jobs for the Future ——Agricultural Scientists ——Other Natural Scientists |
|--|--|-------------|--|
| U. S. OCCUPATIONS Speech Pathology & Audiology | Librarians - Counselors - Rehabilitation Counselors - Rehabilitation Counselors - C | AGRICULTURE | U. S. OCCUPATIONS Agricultural Engineers Life Scientists |
| Speech Pathology & Audiology Education of Multiple Handicapped | Speech & Hearing Impaired Library Science Park & Recreation Rehabilitation Counselors | | Agricultural Engineering— Agricultural Extension Soil Science Agronomy General Agriculture Animal Science Poultry Science Horticulture Agricultural & Farming Management Agricultural Business |

56 ÷

-Other Natural Scientists

- Food Scientist -

Agricultural Mechanization Technology

Food Science -

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HOME ECONOMICS

| GEORGIA JOBS Jobs for the Future Dietitians & Nutritionists | GEORGIA JOBS Jobs for the Future Foresters | GEOPOIA MOSCALLA | Editors, Reporters & Photographers |
|--|--|---------------------------------|---|
| W. S. OCCUPATIONS Management — Food Processing Technology Home Economist | U. S. OCCUPATIONS U. S. OCCUPATIONS Foresters Range Managers Natural Resource Managers Fish & Game | JOURNALISM U. S. OCCUPATIONS | Newspaper Reporters Technical Writers Advertising Workers |
| MAJOR Food & Nutrition— Institutional Management & Cafeteria M Family Relations & Child Development General Home Economic Clothing & Textiles Consumer Economics | MAJOR Forestry Range Management Natural Resource Management Fish & Game & Windlife Management | MAJOR | Journalism Radio & TV Advertising |

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ENVIRONMENTAL DESIGN

| | MAJOR | U. S. OCCUPATIONS | GEORGIA JOBS Jobs for the Future |
|-----------------|--------------------------|--|------------------------------------|
| Landscape | Landscape Architecture — | Landscape Architects, Landscape Design & City Planning | 1 |
| | - | PHARMACY | - • |
| - | MAJOR | U. S. OCCUPATIONS | GEORGIA JOBS - Jobs for the Future |
| Pharmacy— | | Pharmacists | Pharmacists |
| - | * | | |
| | | VETERINARY MEDICINE | |
| ;) | MAJOR | U. S. OCCUPATIONS | GEORGIA JOBS - Jobs for the Future |
| | | Veterinarians | Veterinarians . |
| - | - | LAW | |
| • | MAJOR | U. S. OCCUPATIONS | GEORGIA JOBS - Jobs for the Future |
| Law Pre-Law | | Lawyers | Lawyers & Judges |
| | | | |
| - | - | SOCIAL WORK | |
| Social Work | MAJOR | U. S. OCCUPATIONS | GEORGIA JOBS - Jobs for the Future |
| Pre-Social Work | ork | | Social Workers |

Appendix 2 State of Georgia — Estimated Employment to 1980

| | | | | | | | | | - | | |
|--------------------------|------------------------|------------------|----------|--------|--------|--------|------------|--------|--------|--------|--------|
| U.S. Occupations | State of Georgia | rgia Occupations | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 |
| Agriculture | · · | - | | | | | | | | | |
| Agriculture | | ^ | | | | - | _ | | | | |
| Agronomists | | - | _ | | _ | | | | | | |
| Soil Science | with Other | | • | | | | | | | | |
| Cooperative Extension | Natural Scientists | sts | | - | l | 1 | 1 | | l | l | I |
| Food Scientists | - | | | | | | | | | | |
| Agricultural Engineers | Agricultural Scient | ientists | 1,470 | 1,530 | 1.590 | 1.650 | 1,710 | 1 770 | 1 830 | 1 800 | 1 050 |
| Arts & Sciences | | - | - | | | | - - | ? | 3 | 260'- | 066'1 |
| Mathematicians | Mathematicians | - | 880 | 920 | 096 | 1,000 | 1,040 | 1.080 | 1 120 | 1 160 | 1 200 |
| Statisticians | Staticians & Actuaries | tuaries | 744 | 776 | 808 | 8 | 872 | 806 | 926 | 896 | 5 5 |
| Biochemists | Biological Scientist | ıtists | 974 | 1,036 | 1.098 | 1.160 | 1222 | 1 284 | 1 346 | 1 408 | 36,6 |
| Chemists | Chemists | • | 2,897 | 3.078 | 3.259 | 3 440 | 3 621 | 2,802 | 2,040 | 7 100 | 7,4,0 |
| Physicists | Physicists | | 8 | 980 | 1.060 | 1 140 | 1 220 | 1 300 | 1 280 | 1,101 | 2,47 |
| Music & Music Teachers | | Ξ | | | | ? | 7 | 3 | 200,' | 20*, | |
| Commercial Artists | Workers in Arts | | 14,623 | 15,272 | 15,921 | 16.570 | 17.219 | 17 868 | 18 517 | 10 166 | 10 015 |
| Dancers & Actresses | & Entertainment | | | | _ | | | 2 | | 20. '2 | 0,0 |
| Medical Lab Assistants | Technical Medical | . jes | 9,520 | 006'6 | 10,280 | 10,660 | 11.040 | 11,420 | 11800 | 12 180 | 12 560 |
| | & Other Workers | 2 | <i>-</i> | | | | | | } | 3 | |
| Clergy | Clergy | | 6,827 | 7,248 | 699' | 8,090 | 8.511 | 8.932 | 9.353 | 9 774 | 10 105 |
| Psychologists (graduate) | Psychologists | | 663 | 702 | 741 | 780 | 819 | 858 | 897 | 986 | 975 |
| Geologists | Geologists | | 334 | 336 | 338 | 340 | 342 | 344 | 346 | 348 | 35.0 |
| Anthropologists | | _ | | | | - | <u> </u> | | ? | } | 3 |
| Geographers | - | _ | | - | | | - | _ | | | |
| Political Scientists | Other Social Scient | ientists • | 225 | 270 | 285 | 300 | 315 | 330 | 345 | 360 | 375 |
| | | | | | -1 | | | 1 | | | |

a Negative projections for Agricultural Industry in Georgia

State of Georgia - Estimated Employment to 1980 Appendix 2 cont.

| U.S. Occupations | State of Georgia Occupations | 1972 | 1973 | 1974 | 1975 | 1076 | 1077 | 01.01 | 9100 | |
|---------------------------------|------------------------------|----------|--------|--------|--------|--------|--------|---------|--------|--------|
| Sociologists | With Other Social Scientists | | | | 2 | 2/2 | //61 | 0/61 | 19/8 | 1980 |
| Historians | | <u> </u> |] | | | | ļ ; | ; | I | |
| Psychologists (bachelor's) | Other Natural | 299 | 899 | 699 | 670 | 671 | 672 | 673 | 674 | 675 |
| Life Scientists | Scientists | - | | * | | | ! | 5 | | |
| Business | - M | - | | | | - | - | | | |
| Economists | Economists | 612 | 648 | 684 | 720 | 756 | 792 | 828 | 864 | Č |
| Accountants | Accountants & Auditors | 13,315 | 13,790 | 14.265 | 14.740 | 15 215 | 15.690 | . 16 | 16 | 47 115 |
| Marketing & Research | ade This | _ | - | | ? | 1 | 2, | | 0+0,01 | 61.// |
| Workers D | · . | | | | ŀ | ı | | _ | 1 | |
| Personnel & Employment | Personnel & Labor Relations | 3,505 | 3,660 | 3 815 | 3 970 | 4 125 | 7 200 | 7 425 | 7 | |
| Workers | Workers | | | ? |) | 7, 1 | 4,200 | t, t | 4,530 | 4,745 |
| Systems Analysists ^b | | | _ | | | | | | | |
| Rank Officials 9. | : | | | | | | | | 1 | 1 |
| Sain Ciliciais & | Creditmen | 1,864 | 1,956 | 2,048 | 2,140 | 2,232 | 2,324 | 2.416 | 2.508 | 2 600 |
| Security Officers | | | | | | | | | |) |
| Managers | Managers | I | | 1 | ı | - | | | | * |
| Insurance & Underwriters | Insurance Agents | 19,564 | 20,376 | 21,188 | 22,000 | 22 812 | 23 624 | 24 436 | 25 240 | 20 |
| Real Estate | Real Estate Agents | 2,564 | 2,676 | 2,788 | 2,900 | 3.012 | 3 124 | 3 236 | 2 2/8 | 2 460 |
| Education | | | | _ | | | , , | 0,2,0 | 0,0 | 3,400 |
| College Teachers | College Teachers | 9,610 | 9,970 | 10,330 | 10.690 | 11,050 | 11 410 | 11 770 | 12 130 | 12.480 |
| Student Personnel | - | | | | | | | | 12,130 | 12,430 |
| Elementary Teachers | Elementary Teachers | 26,925 | 27,630 | 28,335 | 29.040 | 29.745 | 30 450 | 31 155 | 31 860 | 32 EEE |
| Secondary School Teachers | Secondary Teachers | 22.715 | 23.780 | 24 845 | 25 910 | 26 975 | 28,040 | 20,100 | 000,10 | 32,303 |
| & School Counselors | | | | - |) | 20,03 | | 29, 105 | 00,170 | 31,235 |
| Speech Pathologists | Other Teachers | 5,656 | 5,914 | 6,172 | 6.430 | 6.688 | 6.946 | 7 204 | 7 462 | 007 7 |
| Library Science | Librarians | 2000 | 0 100 | | 000 | 0 0 0 | | 1031 | 204. | ۱,۱۷۷ |
| Parks & Recreationb | • | 2017 | 7,700 | 4/0/7 | 7,900 | 3,046 | 3,152 | 3,238 | 3,324 | 3,410 |
| Deberiliereiten Contraction | | | | | | | | | l | |
| nenabilitation Counselors | , | | | 1 | ľ | ı | 1 | | 1 | ļ |

bNo corresponding occupations in Georgia CNo meaningful correspondence between U.S. occupation and State of Georgia occupation

Appendix 2 cont. State of Georgia — Estimated Employment to 1980

and the same of th

| U.S. Occupations | State of Georgia Occupations | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 |
|---------------------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Environmental Design | | - | 1 | | | I | | | | |
| Landscape Architect b | - | | l | | | | | | | |
| Landscape Design b | | | | | - | | 1 | 1 | l | 1 |
| Forest Resources | | , | | | | | l . | | | |
| Foresters, Range Managers, | Foresters | - | - | | | | | | | • |
| Fish & Game, Natural Resources | | 1 | J | | 1 | | 1 | 1 | | 1 |
| Home Economics | - | - | | | | _ | | | | |
| Dietitians | | | | | | | | | | |
| Food Process Managers | Dietitians & Nutritionists | . 653 | 672 | 691 | 710 | 729 | 748 | 767 | 186 | 802 |
| Home Economists | | | - | | - | , | ٧ | | | |
| Journalism | | • | | | | ١ | | | | |
| Newspaper Reporters | Editors, Reporters | | | | | | | | | |
| Technical Writers | & Photographers | 2,868 | 2,962 | 3,056 | 3,150 | 3,244 | 3,338 | 3,432 | 3,526 | 3,620 |
| Advertisinge | | | 1 | 1 | 1 | | į | | | 1 |
| Public Relations Workers ^f | | 1 | 1 | 1 | ı | 1 | 1 | | 1 | 1 |
| Law | - | | | | | | | | | |
| Law & Fre-Law | Lawyers & Judges | 4,232 | 4,288 | 4,344 | 4,400 | 4,456 | 4,512 | 4,568 | 4,624 | 4,680 |
| Pharmacy | | | | | | | | | | |
| Pharmacy | Pharmacists | 2,713 | 2,742 | 2,771 | 2,800 | 2,829 | 2,858 | 2,887 | 2,916 | 2,945 |
| Social Work | - | | | | | • | | | • | |
| Social Workers & | Social Workers | 3,262 | 3,388 | 3,514 | 3,640 | 3,766 | 3,892 | 4,018 | 4,144 | 4,270 |
| Pre-Social Work | | | | | | | | | | |
| Veterinary Medicine | | | | | • | | | | | |
| Veterinarians | | 546 | 544 | 542 | 540 | 538 | 536 | 534 | 532 | 230 |
| | ************************************** | | | | | | | | | |

Negative projections for Forestry Industry in Georgia

Average projections for Advertising Industry in Georgia With Personnel & Labor Relations Workers

ESTIMATED UNIVERSITY OF GEORGIA GRADUATES TO 1980 APPENDIX 3

ERIC

| Occupations | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 |
|------------------------------------|-------|-------|------------|-------|-------|-------|------------|-------|
| University of Georgia Graduates | 6,621 | 7,121 | 7,638 | 060'8 | 8,459 | 8,780 | 9,064 | 9,296 |
| Agriculture | | - | | ٠ | | | | |
| Farm Managers | I | 1 | 1 | - | 1 | 1 | | |
| Agronomists* | 1 | - | | 1 | 1 | ı | 1 | |
| Cooperative Extension ^b | - | 1 | 1 | | | l | ı | i |
| Agricultural Engineers | 41 | 4 | 47 | 20 | 52 | 54 | 26 | 22 |
| Food Scientists | 28 | 0E | 32 | 34 | 36 | 37 | 8 8 | 39 |
| Arts & Sciences | | | | - | | - | | |
| Psychologists | 26 | 61 | 65 | 89 | 72 | 75 | 77 | 79 |
| Mathematicians | 142 | 152 | 164 | 173 | 181 | 188 | 194 | 199 |
| Statisticians | 18 | 19 | 21 | 22 | 23 | 24 | 52 | 25 |
| Geologists | 20 | 22 | 23 | 25 | 26 | 27 | 27 | 28 |
| Biochemists | 13 | 41 | . 15 | 16 | 17 | 17 | . 81 | 18 |
| Chemists | 142 | 153 | 164 | 174 | 182 | 189 | 195 | 200 |
| Physicists | 35 | 37 | 40 | 43 | 45 | 46 | 48 | 20 |
| Music, Singers & Teachers | 89 | 73 | 78 | 83 | 87 | 8 | 93 | 95 |
| Commercial Artists | 150 | 161 | 173 | 183 | 192 | 199 | 205 | 211 |
| Dancers & Actresses | 22 | 24 | 5 6 | 27 | 29 | 30 | 31 | 32 |
| Medical Lab Assistants | 2 | က | က | က | က | က | က | က |
| Clergy | 16 | 17 | 19 | 20 | 21 | 21 | 22 | 23 |
| Anthropologists | 14 | 16 | 17 | 18 | 19 | 19 | 20 | 20 · |
| Geographers | 45 | 49 | 52 | . 56 | . 28 | 09 | 62 | 28 |
| Political Scientists | 182 | 195 | 210 | 222 | 232 | 241 | 249 | 255 |
| Sociologists | 138 | 148 | 159 | 168 | 176 | 182 | 188 | 193 |
| | | | | | | | | |

a with Life Scientists

b Insufficient Data; Included with Life Scientists

APPENDIX 3 continued ESTIMATED UNIVERSITY OF GEORGIA GRADUATES TO 1980

| Occupations | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 |
|------------------------------------|---------|-------|---------|------|----------|----------|-------|--------------|
| Arts & Sciences (continued) | - | | | , | | | | |
| Historians | 179 | 193 | 207 | 219 | 229 | 238 | 246 | 252 |
| Liberal Arts (major) | 316 | . 340 | 365 | 386 | 404 | 730 | 733 | 707 |
| Psychology (bachelors) | _ | - | | 3 | 5 | 150 | 433 | 444 |
| Life Scientists | 520 | 529 | 299 | 635 | 664 | 689 | 711 | 730 |
| Buşiness | | | | - | | | | |
| Economists (including Ag. Ec.) | 129 | 138 | 148 | 157 | 164 | 171 | 176 | 101 |
| Accountants | 188 | 201 | 216 | 229 | 240 | 249 | 257 | 191 |
| Marketing & Research Workers | 222 | 239 | 257 | 272 | 284 | 295 | 305 | 312 |
| Personnel & Employment Workers | | 80 | 80 | 6 | 6 | . | 01 | 1 5 |
| Systems Analysis | 7 | æ | <u></u> | O | თ | 01 | 10 | 2 5 |
| Bank Officials & Security Officers | 86 | 106 | 114 | 120 | 126 | 130 | 135 | 138 |
| Managers & Purchasing Agents | 242 | 260 | 279 | 295 | 308 | 320 | 331 | 338 |
| Insurance & Underwriters | 43 | 46 | 49 | 52 | 55 | 57 | 29 | 9 |
| Real Estate Agents | 09 | 8 | 69 | 73 | 92 | 79 | . 88 | 8 8 |
| Manufacture's Salesmen | 240 | 258 | 276 | 293 | 306 | 318 | 328 | 337 |
| Education | _ | , | | | |) | 2 | Š |
| College Teachers | 193 | 208 | 223 | 236 | . 247 | 256 | 265 | 27.0 |
| College & Career Counselors | 21 | 22 | 24 | 25 | - 5e | 27 | 8,00 | 272 |
| Kindergarten & Elementary Teachers | 814 | 876 | 939 | 995 | 1,040 | 1.080 | 1.115 | 1.143 |
| Secondary School Teachers | 734 | 790 | 847 | 897 | 938 | 974 | 1.005 | 1 031 |
| School Counselors | 130 | 140 | 150 | 159 | 166 | 173 | 178 | 183 |
| Speech Pathologist & Audiologists | 26 | 09 | 9 | 69 | 72 | 74 | | 79 |
| Librarians | 20 | 54 | 29 | 61 | 29 | . 62 | 69 | 7.7 |
| Parks & Recreation workers | 98 | 36 | 42 | 44 | 46 | 48 | 49 | . <u>.</u> . |
| Rehabilitation Counselors | - 56 | 27 | 30 | 32 | 33 | 8 | 35 | 36 |

APPENDIX 3 continued
ESTIMATED UNIVERSITY OF GEORGIA GRADUATES TO 1980

| Occupations | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 |
|--|------|-------|------------|--------|-------|-------|----------|-------|
| Environmental Design Landscape Architects Designers & City Planners | 46 | 20 | 53 | . 57 | 29 | . 61 | 63 | 65 |
| Forest Resources Foresters, Range Managers Fish & Game workers | 148 | . 159 | 170 | 180 | 189 | 196 | , 505 | 207 |
| Home Economics Dietitians | , 4 | . 4 | 4 | 4 | ស | ro | Ŋ | ß |
| Food Process Managers | 7 | æ | 60 | ტ , | 6 | 10 | 10 | 10 |
| Home Economists | 86 | 92 | . 113 | 120 | 125 | 130 | 134 | 138 |
| Journalism | | - | | | _ | • | • | ; |
| Newspaper Reporters | 120 | 129 | 139 | 147 | 153 | . 159 | <u>2</u> | - 169 |
| Technical Writers | 63 | 89 | 73 | 11 | 80 | 84 | 98 | 88 |
| Advertising | 130 | . 139 | . 150 | 158 | 166 | 172 | 177 | 182 |
| Public Relations | 47 | 20 | 2 2 | 28 | 09 | အ | 65 | 99 |
| Law | | | | | - | | | į |
| Lawyers | 130 | 140 | 150 | 159 | 166 | 172 | 176 | 182 |
| Pharmacy | | | | | | , | , | • |
| Pharmacists | 168 | 181 | 194 | 206 | , 214 | 223 | 230 | 236 |
| Social Work | | | | | | | | ! |
| Social Workers | 118 | 127 | 136 | 144 | 150 | 156 | 161 | 165 |
| Veterinary Medicine | | - | | | • | * | • | , |
| Veterinarians | 87 | 93 | 100 | 106 | 111 | 115 | 119 | 122 |

APPENDIX 4
ESTIMATED UNIVERSITY SYSTEM OF GEORGIA GRADUATES TO 1980

| Persist 17,266 18,355 20,026 21,548 23,116 24,730 26,323 Fersion Fraction is state — — — — — — — Extension is state — — — — — — — — Extension is state — <th>Occupations</th> <th>72.73</th> <th>73.74</th> <th>74.75</th> <th>75.76</th> <th>76-77</th> <th>81.11</th> <th>78-79</th> <th>79-80</th> | Occupations | 72.73 | 73.74 | 74.75 | 75.76 | 76-77 | 81.11 | 78-79 | 79-80 |
|---|------------------------------------|--------|--------|--------|--------|--------|--------|--------|------------|
| Extremsion* | University System Graduatés | 17,266 | 18,355 | 20,025 | 21,548 | 23,116 | 24,730 | 26,323 | 27,539 |
| First — <th>Agriculture</th> <th></th> <th></th> <th></th> <th>ر</th> <th></th> <th></th> <th></th> <th></th> | Agriculture | | | | ر | | | | |
| Fremework — | Farm Managers* | | -] | , | . | 1 | 1 | 1 | , |
| Extension brins — | Agronomists | 1 | _ | - | ı | 1 | 1 | 1 | I |
| Engineers 41 44 47 50 52 54 56 ists 30 32 34 56 54 56 ists 30 32 34 56 54 56 ists 30 32 34 36 37 38 ists 449 477 520 560 601 643 684 ans 449 477 520 560 601 643 684 ans 43 46 50 53 57 61 65 Ansistants 337 358 391 420 452 483 514 Artists 216 229 260 569 588 698 41 Artists 22 229 250 269 289 309 329 Artists 23 24 33 36 36 41 Assistants 52 52 | Cooperative Extension ^b | | - | 1 | 1 | | 1 | 1 | I |
| ists 28 30 32 34 36 37 38 ices 105 113 121 38 105 113 121 is 449 477 520 560 601 643 684 ins 43 477 520 560 601 643 684 43 47 520 560 601 643 641 43 46 46 50 53 57 61 65 439 467 509 548 588 629 669 Artists 337 358 391 470 452 483 514 Artists 216 229 250 269 269 269 309 329 Artists 22 22 250 269 269 36 41 Artists 22 26 269 269 36 36 41 <t< th=""><th>Agricultural Engineers</th><th>41</th><th>44</th><th>47</th><th>20</th><th>52</th><th>25</th><th>. 56</th><th>22</th></t<> | Agricultural Engineers | 41 | 44 | 47 | 20 | 52 | 25 | . 56 | 22 |
| tost 79 84 91 98 105 113 121 sans 449 477 520 560 601 643 684 ans 43 477 520 560 601 643 684 43 43 46 50 53 57 61 65 439 467 509 548 588 629 669 Artists 337 358 391 420 452 483 514 Artists 216 229 250 269 289 309 329 Artists 27 29 31 33 36 38 41 Assistants 52 55 60 65 70 75 80 3jists 27 28 31 33 36 41 40 44 452 486 522 558 91 92 80 6 | Food Scientists | 28 | 30 | 32 | 34 | 36 | 37 | 38 | 39 |
| ss 79 84 91 98 105 113 121 lans 449 477 520 560 601 643 684 lans 27 28 31 33 36 61 643 684 43 46 50 53 57 61 65 23 439 467 509 548 58 629 669 Artists 337 358 391 420 452 483 514 Artists 216 229 269 269 269 30 30 31 Artists 27 29 31 33 36 38 41 Assistants 52 55 60 65 70 75 80 3jists 27 28 31 33 36 38 41 606 644 702 756 81 91 923 | Arts & Sciences | • | | | | | | | |
| ans. 449 477 520 560 601 643 684 27 28 31 33 36 38 41 43 46 50 53 57 61 65 15 16 18 19 21 22 23 439 467 509 548 588 629 669 337 358 391 420 452 483 514 Artists 216 229 250 269 289 309 329 Artists 27 29 31 33 36 38 41 Assistants 52 55 60 65 70 75 80 sists 27 28 31 33 36 38 41 sists 27 28 31 33 36 38 41 sists 390 414 452 486 | Psychologists | 79 | 8 | 91 | 86 | 105 | 113 | 121 | 126 |
| 27 28 31 33 36 38 41 43 46 50 53 57 61 65 15 16 18 19 21 22 23 439 467 509 548 588 629 669 337 358 391 420 452 483 514 Artists 216 229 250 269 289 309 329 Assistants 27 29 31 33 36 38 41 Assistants 52 55 60 65 70 75 80 gists 27 28 31 33 36 38 41 ststs 66 644 702 756 81 91 923 | Mathematicians . | 449 | 477 | 520 | 260 | . 601 | 643 | 684 | 716 |
| 43 46 50 53 57 61 65 15 16 18 19 21 22 23 439 467 509 548 588 629 669 Arists 337 358 391 420 452 483 514 Arists 216 229 250 269 289 309 329 Artists 27 29 31 33 36 38 41 Assistants 52 55 60 65 70 75 80 gists 27 28 31 33 36 38 41 sists 27 28 72 486 522 58 594 nutists 506 644 702 756 811 868 923 | Statisticians | 27 | 28 | 31 | 33 | 36 | 38 | 41 | 42 |
| rs & Teachers 15 16 18 19 21 22 23 Arists 439 467 509 548 588 629 669 Arists 337 358 391 420 452 483 514 Arists 148 157 171 184 197 211 225 Artists 216 229 250 269 289 309 329 Actists 27 29 31 33 36 38 41 Assistants 52 55 60 65 70 75 80 gists 30 32 33 36 38 41 sts 390 414 452 486 522 554 606 644 702 756 811 868 923 | Geologists | 43 | 46 | 26 | 53 | 22 | 61 | 65 | 89 |
| rs & Teachers 439 467 509 548 588 629 669 ars & Teachers 337 358 391 420 452 483 514 Artists Artists 216 229 250 269 289 309 329 Actresses 27 29 31 33 36 38 41 Assistants 52 55 60 65 70 75 80 gists 27 28 30 32 35 36 41 sists 27 28 31 33 36 38 41 sists 39 414 452 486 522 558 594 entists 506 644 702 756 811 868 923 | Biochemists | 15 | 16 | 81 | 19 | 21 | 22 | 23 | 52 |
| rs & Teachers 337 358 391 420 452 483 514 Artists Artists 216 229 250 269 289 309 329 Artists 27 29 31 33 36 38 41 Assistants 52 55 60 65 70 75 80 Assistants 27 28 30 32 35 37 40 42 gists 27 28 31 33 36 38 41 s 60 64 70 76 81 98 104 entists 90 414 452 486 522 558 594 | Chemists | 439 | . 467 | 509 | 548 | 588 | 629 | 699 | 700 - |
| Artists 148 157 171 184 197 211 225 Artists 216 229 250 269 289 309 329 Artists 27 29 31 33 36 38 41 Assistants 52 55 60 65 70 75 80 gists 27 28 30 31 33 36 41 is 68 72 79 85 91 98 104 entists 606 644 702 756 811 868 923 | Physicists | 337 | 358 | 391 | 420 | 452 | 483 | 514 | 538 |
| Artists 216 229 250 269 289 309 329 Actresses 27 29 31 33 36 38 41 Assistants 52 55 60 65 70 75 80 gists 27 28 31 33 36 38 41 i 68 72 79 85 91 98 104 sunists 606 644 702 756 811 868 923 | Music, Singers & Teachers | 148 | 157 | 171 | 181 | 197 | 211 | 225 | 235 |
| Assistants 27 29 31 33 36 38 41 Assistants 52 55 60 65 70 75 80 assistants 28 30 32 35 37 40 42 gists 27 28 31 33 36 38 41 s 68 72 79 85 91 98 104 snutists 606 644 702 756 811 868 923 | Commercial Artists | 216 | 229 | 250 | 269 | 289 | 309 | 329 | 344 |
| Assistants 52 55 60 65 70 75 80 gists 30 32 35 37 40 42 gists 27 28 31 33 36 38 41 t 68 72 79 85 91 98 104 snitists 606 644 702 756 811 868 923 | Dancers & Actresses | 22 | 29 | 31 | 8 | 36 | 38 | 41 | 43 |
| gists 27 28 30 32 35 37 40 42 gists 27 28 31 33 36 38 41 a multists 606 644 702 756 811 868 923 | Medical Lab Assistants | 52 | 55 | 09 | 9 | 8 | 75 | 80 | ន |
| gists 27 28 31 33 36 38 41 | Clergy | 28 | 90 | 32 | 32 | 37 | 40 | 42 | 4 - |
| intists 68 72 79 85 91 98 104 104 and sets 522 558 594 606 644 702 756 811 868 923 | Anthropologists | 27 | 28 | 31 | 33 | 98 | 38 | 41 | 42 |
| entists 390 414 452 486 522 558 594 594 702 756 811 868 923 | Geographers | 89 | 72 | 79 | 82 | 91 | 86 | \$ | 109 0- |
| 606 644 702 756 811 868 923 | Political Scientists | 390 | 414 | 452 | 486 | 522 | 558 | 594 | 621 |
| | Sociologists | 909 | 644 | 702 | 756 | 118 | 898 | 923 | 996 |

a with Life Scientists

b Insufficient Data; Included with Life Scientists

APPENDIX 4 continued

ERIC

ESTIMATED UNIVERSITY SYSTEM OF GEORGIA SRADUATES TO 1980

| Occupations | 72-73 | 73-74 | 74-75 | 75-76 | 76-77 | 77-78 | 78-79 | 79-80 |
|------------------------------------|-------|------------|-------|-------|-------|-------|-------|------------|
| Arts & Sciences (continued) | _ | | | | | | | |
| Historians | 230 | 563 | 614 | 661 | 200 | 758 | 807 | 845 |
| Liberal Arts (major) | 928 | 1,019 | 1.112 | 1.196 | 1.283 | 1 373 | 1 461 | 1 520 |
| Psychology (bachelors) | | | | | | | | 30.1 |
| Life Scientists | 1,349 | 1.434 | 1.565 | 1684 | 1 806 | 1 933 | 2 057 | 2 153 |
| Business | - | | | | 333 | 200'. | 7,00, | 7,132 |
| Economists (inclucing Ag. Ec.) | 334 | 355 | 388 | 417 | 447 | 479 | 209 | 533 |
| Accountants | . 564 | 599 | 654 | 703 | 754 | 807 | 859 | 899 |
| Marketing & Research Workers | 288 | 625 | 682 | 733 | 787 | 842 | 968 | 937 |
| Personnel & Employment Workers | 80 | œ | 6 | 10 | . 10 | 11 | 12 | -2 |
| Systems Analysts | 22 | 09 | 99 | 71 | 16 | 81 | 87 | 91 |
| Bank Officials & Security Officers | 184 | 196 | . 214 | 231 | 247 | 265 | 282 | 295 |
| Managers & Purchasing Agents | 1,949 | 2,071 | 2,260 | 2,432 | 2,609 | 2.791 | 2.971 | 3 108 |
| Insurance & Underwriters | 65 | 69 | 76 | 81 | 87 | 66 | 66 | _ <u>_</u> |
| Real Estate Agents | \$ | 111 | 121 | 130 | 139 | 149 | 159 | |
| Manufacture's Salesmen | 239 | 254 | 278 | 299 | 321 | 343 | 365 | 382 |
| Education | | | | | | , | | |
| College Teachers | 220 | 235 | 256 | 275 | 295 | 316 | 336 | 352 |
| College & Career Counselors | 52 | 3 8 | 78 | 31 | 33 | 35 | 37 | 16E |
| Kindergarten & Elementary Teachers | 2,418 | 2,570 | 2,804 | 3,018 | 3,237 | 3.463 | 3.686 | 3.857 |
| Secondary School Teachers | 1,878 | 1,997 | 2,178 | 2,344 | 2,515 | 2.690 | 2.863 | 2 996 |
| School Counselors | 311 | 331 | 361 | 388 | 416 | 445 | 474 | 496 |
| Speech Pathologist & Audiologists | 216 | . 229 | 250 | 269 | 289 | 309 | 329 | 344 |
| Librarians | 22 | 22 | 29 | 61 | 2 | 29 | 69 | |
| Parks & Recreation workers | . 111 | 118 | 128 | 138 | 148 | 159 | 169 | 171 |
| Rehabilitation Counselors | 20 | 23 | 23 | 62 | 67 | - 22 | 76 | - € |

APPENDIX 4 continued

ところとかとうといいかをおれているのかというなからなどをできた。

ESTIMATED UNIVERSITY SYSTEM OF GEORGIA GRADUATES TO 1980

| al Design Trees 61 65 71 77 82 88 rress rress 157 167 182 196 210 225 mics 10 11 12 13 14 15 mists 14 15 16 18 19 20 mists 161 171 186 201 215 230 mists 162 177 190 204 218 porters 74 79 86 99 106 porters 74 50 54 58 60 63 porters 74 50 54 58 60 63 post 74 50 54 58 60 63 post 181 194 206 217 223 post 223 243 262 281 300 | Occupations | 72-73 | 73.74 | 74.75 | 75.76 | 76.77 | 87.77 | 70.70 | 70 07 |
|--|----------------------------|-------|-------------|-------|----------|----------|-------|-------|-----------|
| igners, City Planners City Planners City Planners Des Workers In | | | | | | | 77.70 | 61-01 | 00-67 |
| igners, City Planners Bes Bes Bes Gity Planners City Planners Bes Bes Bes Bes Bes Bes Bes | Environmental Design | | | • | | | | | |
| City Planners City Planners City Planners Cest Ces | Landscape Designers, | ; | į | ì | | , | | | |
| oest 167 167 182 196 210 workers 10 111 12 13 14 iics 10 111 12 13 14 Managers 161 171 196 201 215 sists 161 171 196 204 corters 152 162 177 190 204 ers 145 154 168 181 194 ers 130 140 150 159 166 130 140 150 159 166 168 181 194 206 217 169 223 243 262 281 | Architects & City Planners | 5 | Ç. | | <i>"</i> | 82 | 88 | \$ | 86 |
| ye Managers 157 167 182 196 210 workers 163 10 11 12 13 14 19 19 19 19 19 19 19 19 19 19 19 19 19 | Forest Resources | | | | | ٠ | • | | |
| workers 157 167 182 196 210 sics 10 11 12 13 14 Managers 14 15 16 18 19 ists 161 171 186 201 215 porters 152 162 177 190 204 ers 74 79 86 92 99 ers 145 154 168 181 194 is 47 50 54 58 60 130 140 150 159 166 168 181 194 206 217 168 181 194 206 217 16cine 209 223 243 262 281 | Foresters, Range Managers | , | | | | | | | |
| 10 11 12 13 14 Managers 14 15 16 18 19 sists 161 171 186 201 215 porters 152 162 177 190 204 ers 74 79 86 92 99 ers 145 154 168 181 194 is , 47 50 54 58 60 130 140 150 159 166 168 181 194 206 217 16icine 209 223 243 262 281 | Fish & Game workers | 157 | 167 | 182 | 196 | 210 | 225 | 239 | 250 |
| Managers 10 11 12 13 14 Managers 14 15 16 18 19 sists 161 171 186 201 215 corters 152 162 177 190 204 ers 74 79 86 92 99 ers 145 154 168 181 194 ss 47 50 54 58 60 130 140 150 159 166 168 181 194 206 217 16icine 209 223 243 262 281 | Home Economics | | | | | | | | |
| Wanagers 14 15 16 18 19 sists 161 171 186 201 215 porters 152 162 177 190 204 pers 74 79 86 92 99 pers 145 154 168 181 194 ps 47 50 54 58 60 ps 47 50 150 159 166 ps 168 181 194 206 217 ps 209 223 243 262 281 | Dietitians | 5 | = | 12 | 13 | 14 | 15 | 16 | 16 |
| orters 161 171 186 201 215 oorters 74 79 86 92 99 145 154 168 181 194 15 47 50 54 58 60 130 140 150 159 166 217 209 223 243 262 281 | Food Process Managers | 4 | 15 | 16 | 82 | 19 | 20 | 22 | 8 |
| oorters 152 | Home Economists | 161 | 171 | 186 | 201 | 215 | . 230 | 245 | 256 |
| orders 152 162 177 190 204 sers 145 145 154 168 181 194 sers 150 54 58 60 130 140 150 159 166 217 sers 166 166 166 166 166 166 209 223 243 262 281 | Journalism | | | | | | | | } |
| 145 154 168 181 194 195 154 168 181 194 194 130 140 150 159 166 167 168 181 194 206 217 168 161 164 166 166 166 166 166 166 166 166 | Newspaper Reporters | 152 | 162 | 177 | 190 | 204 | 218 | 232 | 243 |
| 15 154 168 181 194 194 168 181 194 194 150 150 159 166 168 181 194 206 217 209 223 243 262 281 | . Technical Writers | 74 | 6/ | 98 | 92 | 66 | 106 | 113 | 118 |
| 130 140 150 159 166 168 181 194 206 217 209 223 243 262 281 | Advertising | 145 | 154 | 168 | 181 | <u>2</u> | 207 | 221 | 231 |
| 130 140 150 159 166 168 181 194 206 217 209 223 243 262 281 | Public Relations | 47 | 20 | ক্ষ | 28 | 09 | 63 | 65 | <u> </u> |
| 130 140 150 159 166 168 181 194 206 217 209 223 243 262 281 | Law | , | | | | | } | } | 3 |
| 168 181 194 206 217 209 223 243 262 281 | Lawyers | 130 | 140 | 150 | 159 | 166 | 172 | 176 | 182 |
| 168 181 194 206 217 209 223 243 262 281 | Pharmacy | | | | | | 1 | · · | } |
| licine 209 223 243 262 281 | Pharmacists | 168 | 181 | 194 | 206 | 217 | 223 | 230 | 236 |
| licine 209 223 243 262 281 | Social Work | | | , | | | | | } |
| | Social Workers | 209 | 223 | 243 | 262 | . 281 | 300 | 320 | 334 |
| | Veterinary Medicine | | | | | | | | } |
| 87 93 100 106 111 | Veterinarians | 87 | 93 | 100 | 106 | 111 | 115 | 119 | 122 |

APPENDIX 5

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ESTIMATED U. S. EMPLOYMENT 1970 - 1980

| Occupations | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | . 1980 |
|-------------------------------------|-----------|---------|------------------|---------|---------|----------|---------|---------|---------|---------|----------|
| Agriculture | | | | - | | | | | | | |
| Agricultural Engineers | 13,000 | 13,150 | 13.300 | 13.450 | 13 600 | 713 750 | 12 000 | 7.000 | | | |
| Food Scientists | 7,300 | 7.550 | 7.800 | 050 | 000,0 | 007,01 | 006,51 | 000,4 | 14,200 | 14,350 | 14,500 |
| Cooperative Extension ^b | | | | | 200,0 | 2000 | 0,000 | nen's | 9,300 | 9,550 | 008 6 |
| Agronomists | | • | | |] | Ī | | 1 | | | 1 |
| Farm Managersb | | | l [‡] . | Ì | l | I | | 1 | 1 | I | |
| Arts & Sciences | l | I | l | 1 | 1 | I | 1 | | Ī | | ı |
| Psychologists | 40,000 | 41,800 | 43,600 | 45,400 | 47,200 | 49.000 | 50 800 | 52 600 | 54 400 | 2000 | 000 |
| Mathematicians | 75,000 | 78,500 | 82,000 | 85,500 | 89,000 | 92.500 | 000'96 | 00,50 | 200,501 | 20,400 | 000,00 |
| Statisticians | 24,000 | 24,900 | 25,800 | 26,700 | 27,600 | 28,500 | 29,400 | 30,300 | 31,200 | 32,100 | 33,000 |
| Geologists | 23,000 | 23,400 | 23,800 | 24,200 | 24,600 | 25,000 | 25,450 | 25.800 | 26,200 | 26.60 | 22,50 |
| Biochemists , | 11,000 | 11,600 | 12,200 | 12,800 | 13,400 | 14,000 | 14,600 | 15.200 | 15.800 | 16.400 | 17.000 |
| Life Scientists | 180,000 | 186,000 | 192,000 | 198,000 | 204,000 | 210,000 | 216,000 | 222.000 | 228.000 | 234 000 | 240.000 |
| | 137,000 | 143,300 | 149,600 | 155,900 | 162,200 | 168,500 | 174,800 | 181,100 | 187,400 | 193,700 | 200,000 |
| rnysicists | 48,000 | 50,700 | 53,400 | 56,100 | 28,800 | 61,500 | 64,200 | 99 | 009'69 | 72.300 | 75,000 |
| Music, Singers & Leachers | . 285,000 | 288,300 | 291,600 | 294,900 | 298,200 | 301,500 | 304,800 | 308,100 | 311,400 | 314,700 | 318,000 |
| Commercial Artists | 000,09 | 60,550 | 61,100 | 61,650 | 62,200 | 62,750 | 63,300 | 63,850 | 64.400 | 64.950 | 65,500 |
| Udirens & Actresses | 38,000 | 38,800 | 39,600 | 40,400 | 41,200 | 42,000 | 42,800 | 43,600 | 44.400 | 45 200 | 46,000 |
| Integrical Lab Assistants | 110,000 | 118,000 | 126,000 | 134,000 | 142,000 | 150,000 | 158,000 | 166,000 | 174.000 | 182,000 | 190,000 |
| AG | 361,500 | 363,060 | 364,620 | 366,180 | 367,740 | 369,300 | 370,860 | 372.420 | 373 980 | 375 540 | 377 100 |
| Anthropologists | 3,100 | 3,200 | 3,300 | 3,400 | 3,500 | 3,600 | 3,700 | 3.800 | 3,900 | 4 000 | 3 5 |
| Geographers | 7,100 | 7,300 | 7,500 | 7,700 | 2,900 | 8,100 | 8,300 | 8.500 | 8 700 | 800 | 5 |
| Political Scientists | 11,000 | 11,600 | 12,200 | 12,800 | 13,400 | 14,000 | 14,600 | 15.200 | 15.800 | 16.400 | 2 2 2 |
| Sociologists | 12,000 | 12,400 | 12,800 | 13,200 | 13,600 | 14,000 | 14.400 | 14 800 | 15 200 | 00,44 | 3 5 |
| Psychology (bachelors) ^a | 1 | J | - [| 1 | | | | | 204,51 | 200,5 | 9 |
| Historians | 15,500 | 15,850 | 16,200 | .16,550 | 16 900 | 17 260 | 17 600 | | | |] |
| Liberal Arts (major) | | ı | | | } |) (1) | 00, | 068,71 | 18,300 | 18,650 | 19,000 |
| Mich 1 it. Calandar | | | | 1 | 1 | | | | | | 1 |

With Life Scientists

Dissufficient Data; Included with Life Scientists

APPENDIX 5 continued ESTIMATED U. S. EMPLOYMENT 1970 -- 1980

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| . Occupations | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1080 | <u></u> - |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|
| Business | | | | | | | | | | | | |
| Accountants | 491,000 | 513,900 | 536,800 | 559,700 | 582,600 | 605.500 | 628 400 | 651 300 | 674 200 | 607 100 | - | |
| Marketing & Research Workers | 23,000 | 24,900 | 26,800 | 28.700 | 30,600 | 32 500 | 24 400 | 36.200 | , | 001,780 | ` | |
| Personnel & Employment Workers | 168,000 | 174,000 | 180,000 | 186,000 | 192,000 | 198 000 | 20,20 | 210,000 | | 40,100 | | |
| Economists | 33,000 | 34,500 | 36,000 | 37,500 | 39.000 | 40 500 | 42,000 | 42 500 | V | 000,222 | 228,000 | _ |
| Systems Analysts | 100,000 | 118,300 | 136,600 | ,54,900 | 173,200 | 191 500 | 200,200 | 226 100 | | 40,500 | 48,000 | |
| Bank Officials & Securities | 374,000 | 386,200 | 398,400 | 410.600 | 422,800 | 435,000 | 447 200 | 450 400 | 004047 | 204,700 | 283,000 | |
| Managers & Purchasing Agents | 362,000 | 370,300 | 378,600 | 386,900 | 395,200 | 403 500 | 411 800 | 430,400 | 000'1/4 | 483,800 | 496,000 | |
| Insurance & Underwriters | 405,000 | 420,350 | 435,700 | 451,050 | 466,400 | 481,750 | 497 100 | 512.450 | 420,400 | 436,/00 | 445,000 | |
| Real Estate Agents | 226,000 | 230,400 | 234,800 | 239,200 | 243,600 | 248.000 | 252,400 | 256,800 | 261 200 | 061,040 061,690 | 000,000 | _ |
| Manufacture's Salesmen | 510,000 | 532,500 | 555,000 | 577,500 | 600,000 | 622 500 | 645,000 | 667 500 | 000,000 | 210,500 | 270,000 | _ |
| Education | • | | • | | | 2 | 200 | 000'100 | ono'oso | 006'217 | /35,000 | - |
| College Teachers | 335,000 | 341,000 | 347,000 | 353,000 | 359 000 | 365,000 | 221 000 | 233 000 | 200 | | | 69 |
| College & Career Counselors | 2,800 | 2,920 | 3,040 | 3.160 | 3 280 | 3,400 | 25,5 | 2,7,000 | 383,000 | 389,000 | 395,000 | _ |
| Kindergarten & Elementary Teachers | 1,260,000 | 1.261,000 | 1 262 000 | 1 263 000 | 1 264 000 | 000,000 | 026,6 | 040,5 | 3,760 | 3,880 | 4,000 | |
| Secondary School Teachers | 1 015 000 | 1020000 | 1000,000 | 1,203,000 | 1,204,000 | 000,602,1 | 1,266,000 | 1,267,000 | 1,268,000 | 1,269,000 | 1,270,000 | |
| School Counselors | 54 000 | 000,030,1 | 000,620,1 | 000,050,1 | 000,650,1 | 1,040,000 | 1,045,000 | 1,050,000 | 1,055,000 | 1,060,000 | 1,065,000 | |
| Speech Pathologists & Audiologists | 000,45 | 20, 00 | 002,86 | 60,300 | 62,400 | 64,500 | 009'99 | 68,700 | 70,800 | 72,900 | 75,000 | |
| Interpretation | 22,000 | 23,100 | 24,200 | 25,300 | 26,400 | 27,500 | 28,600 | 29,700 | 30,800 | 31,900 | 33,000 | |
| | 125,000 | 128,000 | 131,000 | 134,000 | 137,000 | 140,000 | 143,000 | 146,000 | 149,000 | 152,000 | 155 000 | |
| rarks of necreation workers | 13,500 | 14,500 | 15,500 | 16,500 | 17,500 | 18,500 | 19,500 | 20.500 | 21 500 | 22 500 | 23,500 | |
| Rehabilitation Counselors | 13,000 | 13,800 | 14,600 | 15,400 | 16,200 | 17,000 | 17.800 | 18,600 | 10.400 | 20,000 | 23,500 | |
| Environmental Design | | | | | | | | | 30.5 | 20,202 | 000,12 | |
| Landscape Architects, | 18 000 | 18 500 | 5 | 10 53 01 | - S | | | | _ | | | |
| Designers & City Planners | | | 3 | 96,6 | 20,00 | 70,500 | 000,12 | 21,500 | 22,000 | 22,500 | 23,000 | |
| rorest Resources | - | | | | _ | • | _ | | | | | |
| Foresters, Range & Natural Resource Managers, Fish & Game | 36,600 | 38,660 | 40,720 | 42,780 | 44,840 | 46,900 | 48,960 | . 51,020 | 53,080 | 55,140 | 57,200 | |
| | | | | | | • | | | | | | |

APPENDIX 5 continued
ESTIMATED U.S. EMPLOYMENT 1970 -- 1980

| Occupations | 1970 | 161 | 1972 | 1973 | 1974 | 1975 | 1978 | 1977 | 1078 | 2070 | 1964 |
|--------------------------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------------|---------|
| Home Economics | | | | | | | | | | G/CI | Dec. |
| Dietitians | 30,000 | 31,200 | 32.400 | 33 600 | 34 800 | 36 | 27.200 | - | | - | |
| | | | | 3 | 30'5 | 3 | 3,,2 | 38,450 | 39,600 | 40,800 | 42,100 |
| rood Processing Managers | 3,400 | 3,510 | 3,620 | 3,730 | 3.840 | 3.950 | 4 060 | 4 170 | A 200 | Ş. | |
| Home Economists | 2000 | 107 500 | | 20.00 | | | | ? | 7,400 |) () () | 36. |
| Journalism | | 36' | 0000 | 006'71 | 000,211 | 117,500 | 120,000 | 122,500 | 125,000 | 127,500 | 130,000 |
| Newspaper Reporters | 39,000 | 39 600 | 40.200 | 40.800 | 41.400 | | . 60 | | | | |
| Technical Wilson | - | | 3 | 200 | 3 | 30,24 | 42,000 | 43,200 | 43,800 | 44,400 | 45,000 |
| | 20,000 | 20,500 | 21,000 | 21,500 | 22,000 | 22,500 | 23,000 | 23,500 | 24 000 | 24 500 | 36.00 |
| Advertising | 141,000 | 142,400 | 143.800 | 145,200 | 146 600 | 148 000 | 140 400 | 40.000 | 450,000 | | 200'22 |
| Public Relations Workers | 75,000 | 70.00 | 8 | 01000 | | 200 | 001/21 | 200,00 | 152,200 | 25,000 | 000,661 |
| MET . | | 200 | 33,33 | | 30,16 | 000'68 | 000,66 | 103,000 | 107,000 | 111,000 | 115,000 |
| Lawyers | 280 000 | 285 5.00 | 30.00 | 900 | 300 000 | | | , | | | |
| Pharmacy | _ | 200,000 | 231,000 | 200,000 | 302,000 | 307,500 | 313,000 | 318,500 | 324,000 | 329,500 | 335,000 |
| Pharmacists | 129 000 | 129 700 | 130,400 | 12: :00 | 23.000 | | | | | | |
| Social Work | | | 2 | 3. | 000,151 | 132,300 | 133,200 | 133,900 | 134,600 | 135,300 | 136,000 |
| Social Workers | 170,000 | 180 000 | 100,001 | 000,000 | 310,000 | 000 | | | | | |
| Veterinary Medicine | | 2 | 2000 | 200,000 | 200,012 | 770,000 | 230,000 | 240,000 | 250,000 | 260,000 | 270,000 |
| Veterinarians | 25.000 | .25.900 | 26 800 | 007.76 | 20 800 | | 35 | | | | |

APPENDIX 6
ESTIMATED U.S. GRADUATES TO 1980

| Occupations | 1972-1973 | 1973-1974 | 1974-1975 | 1975-1976 | 1976-1977 | 1977-1978 | 1978-1979 | 1979.1980 |
|------------------------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| United States Graduates | 1,251,500 | 1,303,700 | 1,383,800 | 1,456,800 | 1,532,000 | 1,609,400 | 1,685,800 | 1,744,100 |
| Agriculture | - | | | | | | | |
| Farm Managers ^a | Į | I | ı | | - | } | l | |
| Agronomists ^a | I | | ļ | I | i | .! | l | |
| Cooperative Extension ^a | - - - - | | ١ | I | - |] | | ļ |
| Food Scientists ^b | 1 | l | ١ | ı | | l | l | ١ |
| Agricultural Engineers | 763 | 795 | 844 | 688 | 934 | 982 | 1,028 | 1,064 |
| Arts & Sciences | | Ÿ | | | | | | |
| Psychologists | 6,257 | 6,518 | 6,919 | 7,284 | 2,600 | 8,047 | 8,429 | 8,720· |
| Mathematicians | 41,124 | 42,834 | 45,472 | 47,870 | 50,341 | 52,885 | 55,395 | 57,311 |
| Statisticians | 1,250 | 1,278 | 1,356 | 1,428 | 1,501 | 1,577 | 1,652 | 1,709 |
| Geologists | 3,767 | 3,924 | 4,165 | 4,385 | 4,611 | 4,844 | 5,074 | 5,250 |
| Biochemists | 1,376 | 1,434 | 1,522 | 1,602 | 1,685 | 1,770 | 1,854 | 1,919 |
| Chemists | 19,811 | 20,637 | 21,906 | 23,061 | 24,252 | 25,477 | 26,686 | 27,609 |
| Physicists | 12,715 | 13,246 | 14,059 | 14,801 | 15,565 | 16,352 | 17,128 | 17,720 |
| Music/Singers Teachers | 19,936 | 20,768 | 22,044 | 23,206 | 24,405 | 25,638 | 26,855 | 27,784 |
| Commercial Artists | 13,015 | 13,558 | 14,392 | 15,209 | 15,933 | 16,738 | 17,532 | 18,139 |
| Dancers & Actresses | - | | | l | ı | - | 1 | [|
| Medical Lab Assistants | - | | | ١ | | - | j | 1 |
| Clergy (Philosophy & Religion) | 18,872 | 19,660 | 20,868 | 21,969 | 23,103 | 24,270 | 25,422 | 26,301 |
| Anthropologists | 4,543 | 4,732 | 5,023 | 5,288 | 5,561 | 5,842 | 6,119 | 6,331 |
| Geographers | 4,906 | 5,110 | 5,425 | 5,711 | 6,005 | 602'9 | 909'9 | 6,837 |
| Political Scientists | 38,446 | 40,050 | 42,510 | 44,753 | 47,063 | 49,441 | 51,788 | 53,579 |
| Sociologists | 36,243 | 37,755 | 40,075 | 42,189 | 44,367 | 46,608 | 48,821 | 50,509 |
| Historians | 58,045 | 60,466 | 64,181 | 63,633 | 71,054 | 74,644 | 78,187 | 80,891 |

with Life Scientists

b Insufficient Data; Included with Life Scientists

ESTIMATED U.S. GRADUATES TO 1980

| | - | _ | | - | | | | | |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| Occupations | 1872-1973 | 1973-1974 | 1974-1975 | 1975-1976 | 1976-1977 | 1977.1978 | 1978-1979 | 1979-1980 | |
| Liberal Arts (major) | 156,875 | 163,419 | 173,459 | 182,610 | 192,036 | 201,738 | 211,315 | 218,623 | |
| Life Scientists | 128,842 | 134,215 | 142,462 | 149,978 | 157,719 | 165,688 | 173,553 | 179,555 | |
| Economists (including Ag. Ec.) | 25,906 | 26,987 | 28,645 | 30,156 | 31.712 | 33.315 | 34 896 | 36 103 | |
| Accountants | 27,107 | 28,238 | 29,973 | 31,554 | 33, 183 | 34.860 | 36.514 | 37,777 | |
| Marketing & Research Workers | 18,672 | 19,451 | 20,646 | 21,735 | 22,857 | 24,012 | 25.152 | 26.022 | |
| Personnel & Employment Workers | 6,408 | 6,675 | 280'2 | 7,459 | 7,844 | 8,240 | 8.631 | 8.930 | |
| Systems Analysts | 2,553 | 2,660 | . 2,823 | 2,972 | 3,125 | 3,283 | 3.439 | 3.558 | |
| Bank Officials & Security Officers | 8,022 | 8,357 | 8,870 | 9,338 | 9,820 | 10,316 | 10,806 | 11,180 | - |
| Managers & Purchasing Agents | 17,433 | 18,161 | 19,276 | 20,293 | 21,341 | 22,419 | 23.483 | 24.295 | - / |
| Insurance & Underwriters | 1.264 | 1 434 | 1 208 | 1 471 | | | - | | 2 - |
| Real Estate | | | 200 | | Ř, | C 20'1 | 50/, | 1,762 | • |
| Manufacture's Salesmen Education | 20,998 | 73,489 | 78,503 | 82,644 | 86,910 | 91,301 | 95,635 | 98,943 | |
| College Teachers | 21,726 | 22.632 | 24.023 | 25.290 | 28 506 | 27 020 | 30.00 | 000 | |
| College & Career Counselors | - | - | | | | BCC' / 3 | 29,409 | 30,2/8 | |
| Kindergarten & Elementary Teachers | 164,059 | 170,902 | 181,402 | 190.972 | 200,830 | 210 976 | 220.002 | 200 600 | |
| Secondary School Teachers | 83,087 | 86,553 | 91,870 | 96,717 | 101,709 | 106.848 | 111,920 | 115.900 | |
| School Gounselors | 12,928 | 13,467 | 14,295 | 15,049 | 15,826 | 16,625 | 17.414 | 18.016 | |
| Speech Pathologist & Audiologists | 2,509 | 7,822 | 8,303 | 8,741 | 9,192 | 9,656 | 10,115 | 10,464 | |
| Librarians | 8,798 | 9,165 | 9,728 | 10,241 | 10,770 | 11,314 | 11,851 | 12.261 | |
| Parks & Recreation | 1,927 | 2,008 | 2,131 | 2,243 | 2,359 | 2,478 | 2,596 | 2.686 | |
| | | | | | | | | | |

APPENDIX & cont.

ESTIMATED U.S. GRADUATES TO 1980

| - | | 1 | - 11 | 4. | | | | | |
|----------------------------|---------------|-----------|---|--|-----------|-----------|--------------|-----------|-----|
| Occupations | 1972-1973 | 1973-1974 | 1974-1975 | 1975-1976 | 1976-1977 | 1977-1978 | 1978-1979 | 1979-1980 | . • |
| Rehabilitation Counselors | 813 | 847 | 668 | 947 | 966 | 1,046 | 1,096 | 1,134 | |
| Environmental Design | • | • | | | | | | • | |
| Landscape Design | | | | - (| | | | | |
| Architects & City Planners | 0,883 | 0,12/ | S S S S S S S S S S S S S S S S S S S | , to , | 7,200 | 7,564 | 7,923 | 8,197 | |
| Forest Resources | - | | - | | - | | | | |
| Foresters, Range Managers | | | | - (| - | - (| 1 | | |
| Fish & Game | 4,092 | 4,263 | 4,525 | 4,764 | 5,010 | 5,263 | 5,513 | 5,703 | |
| Home Economics | - | | * | | - | | | - | |
| Dietitians | 1,351 | 1,408 | 1,495 | 1,573 | 1,655 | 1,738 | 1,821 | 1,884 | |
| Food Process Managers | 438 | 456 | 484 | 510 | 536 | 563 | 290 | 610 | |
| Home Economists | 11,063 | 11,525 | 12,233 | 12,878 | 13,543 | 14,227 | 14,902 | 15,418 | _ |
| Journalism | | - | • | | | | • | | - / |
| Newspaper Reporters | 7 604 | 900 | 107 0 | 9700 | 9 | | | - | 3 - |
| Technical Writers | 5 00'. | 0,0,0 | /A+ (0 | 0 46 0 46 0 46 0 46 0 46 0 46 0 46 0 46 | 904,9 | 78876 | 10,351 | 10,709 | |
| Advertising | | I | - | 1 | 1 | 1 | - - | 1 | - |
| Public Relations | 1,589 | 1,656 | 1,757 | 1,850 | 1,946 | 2,044 | 2,141 | 2,215 | |
| Law | - | | | - | | , | - | | |
| Lawyers | 22,739 | 23,688 | 25,144 | 26,470 | 27,836 | 29,243 | 30,631 | 31,690 | |
| Pharmacy | | | | - | = | | | | |
| Pharmacists | 5,619 | 5,854 | 6,213 | 6,541 | 6,879 | 7,226 | 7,569 | 7,831 | |
| Social Work | <i>Γ</i> | | | | | - | | - | |
| Social Workers | 11,013 | 11,473 | 12,177 | 12,820 | 13,482 | 14,163 | 14,835 | 15,348 | |
| Veterinary Medicine | - | - | | | | | _ <u>-</u> - | | |
| Veteriņariahs | 1,526 | 1,591 | 1,688 | 1,777 | 1,869 | 1,963 | 2,057 | 2,128 | |
| | | | | | | | | | |

APPENDIX 7. TOTAL EMPLOYMENT IN GEORGIA BY OCCUPATION 1960, 1967 AND PROJECTIONS TO 1975*

| · . | , Annu | al Averege Emp | leyment | | henge |
|---|-------------|------------------|-----------|-----------------|------------------|
| Occupational Title | 1960 | 1967 | 1975 | 1960-1975 | 1967-1975 |
| | | | -#; | / 22.000 | 364 000 |
| Total | 1,380,500 | 1,707,400 | 2,064,300 | 683,800 | 356 , 900 |
| Professional, Technical, and Kindred | 135,840 | 186,570 | 266,110 | 130,270 | 79,540 |
| Engineers, technical | 10,920 | 17,480 | 25,860 | 14,940 | 8,380 |
| Engineers , aeronautical | 860 | 1,820 | 2,110 | _1,250 | 290 |
| Engineers . chemical | 510_ | 730 | 1,010 | 500 | 280 |
| Engineers, civil | 2,850 | 3,840 | 5,490 | 2,640 | 1,650 |
| Engineers, electrical | 1,820 | 2,980 | 4,820 | 3,000 | 1,840 |
| Engineers , industrial | 990 | 1,720 | 2,860 | 1,870 | 1,140 |
| Engineers, mechanical | 1,860 | 3,000 | 4,090 | 2,230 | 1,090 |
| Engineers, metallurgical | 150 | 260 | 410 | <u>.</u> 260 | 150 |
| Engineers, mining | 70 | 130 | 100 | 30 | -30 |
| Other engineers, technical | 1,810 | 3,000 | 4,970 | 3,160 | 1,970 |
| -Medical, and ether health workers | 24,000 | 29,820 | 39,560 | 15,560 | 9,740 |
| Deatists · | 1,340 | 1,480 | 2,050 | ~ 7 <u>10</u> | 570 |
| Dietitians, autritionists | 560 | 560 | 710 | 150 | 150 |
| Nurses, professional | 9,370 | 11,750 | 15,170 | 5,800 | 3,420 |
| Optometrists | 280 | 290 | 330 | 50 | 40 |
| Osteopadas | 210 | - 1 90 | 270 | 60 | 80 |
| Pharmacists | 2,050 | 2,570 | 2,800 | 750 | 230 |
| Physicians, surgeons | 3,620 | 4,330 | 6,250 | 2,630 | 1,920 |
| ∂sychologists | 290 | 470 | 780 | 490 | 310 |
| Technicians, medical, dental | 2,550 | 4,190 | 6,780 | 4,230 | 2,590 |
| Veterinarians | 440 | 560 | 540 | 100 | -20 |
| Other medical and health workers | 3,290 | 3,430 | 3,880 | 590 | 450 |
| · Teachers | 38,330 | 52,970 | 72,070 | 33,740 | 19,100 |
| Teachers, elementary | 19,290 | 23,400 | 29,040 | 9,750 | 5,640 |
| Teachers, secondary | 11,860 | 17,390 | 25,910 | 14,050 | 8,520 |
| Teachers, college | 4,050 | 7,810 | 10,690 | 6,640 | 2,880 |
| Teachers, other | 3,130 | 4,370 | 6,430 | 3,300 | 2,060 |
| Natural scientists | 3,930 | 5,880 | 9,400 | 5,470 | 3,520 |
| * Chemists | 1,440 | 1,990 | 3,440 - | 2,000 | 1,450 |
| Agricultural scientists | 860 | 1,170 | 1,650 | 790 | 490 |
| Biological scientists | 460 | 660 | 1,160 | 700 | 500 |
| Geologists, geophysicists | 140 | 220 | 340 | 200 | 120 |
| Mathematician's | | 680 | 1,000 | 660 | 320 |
| Physicists | 340 | 500 | 1,140 | 790 | 640 |
| Other natural scientists | 350 | 660 | 670 | 750 330 | 10 |
| Social scientists | 340 | | | | 670 |
| Economists | 840 | 1,190 | 1,860 | 1,020 | 290 |
| Statisticiaas, actuaries | 290 | 430 | 720 | 430 | · - |
| - | 420 | 580 | 840 | 420 | 260 |
| Other social scientists | 130 | 180 | 300 | 170 | 120 |
| Technicians except medical and dental | 11,290 | 16,540 | 26,260 | 14,970 | 9,720 |
| Draftsmen | 3,120 | 4,900 | 5,950 | 2,830 | 1,050 |
| Surveyors | 870 | 940 | 1,690 | 820 | 750 |
| Air traffic controllers | . 340 | ² 450 | 520 | 180 | . 70 |
| Radio operators | 330 | 450 | 590 - | 260 | 140 |
| Technicians, other | 6,630 | 9,800 | - 17,510 | 10,880 | 7,710 |
| Other professional, technical and kindred workers | 46,530 | 62,690_ | 91,100 | 44,570 | 28,410 |
| Accountants and auditors | 7,450 | 10,9 40 | 14,740 | 7,290 | 3,800 |
| Airplane pilots, navigators | 760 | 1,830 | 2,520 | 1,760 | 690 |
| Architects | 6 50 | 740 | 790 | 140 - | - 50 |

^{*} Georgia Department of Labor, Employment Security Agency, Georgia Jobs for the Future, 1971. p. 56 - 59.



APPENDIX 7 Continued. TOTAL EMPLOYMENT IN GEORGIA BY OCCUPATION 1960, 1967 AND PROJECTIONS TO 1975

| leguaries al Tiele | | | | Net C | |
|--|---------|------------|---------|--------------|------------------|
| Occupational Title | 1960 | . 1967 | 1975 | 1960-1975 | 1967-197 |
| , puis. | - , | | - | _ | |
| Clergymen | 7,460 | 4,720 | 8,090 | 630 | 3,370 |
| Designers except design draftsmen | 1,330 | 1,940 | 2,730 | 1,400 | 790 |
| Editors and reporters | 1,220 | 1,510 | 2,170 | 950 | 660 |
| Lawyers and judges | 2,840 | 3,950 | 4,400 | , 1,560 | 450 |
| Librariags | 1,570 | 2,270 | 2,960 | 1,390 | - 690 |
| Personnel and labor relations workers | 1,730 | 2,730 | 3,970 | 2,240 | . 1,240 |
| Photographers | 790 | 890 | 980 | 190 | 90 |
| Social and welfare workers | 2,020 | 2,630 | 3,640 | 1,620 | 1,010 |
| Workers in arts, entertainment | 8,470 | 11,380 | 16.570 | 8,100 | 5,190 |
| Professional, technical, kindred, n.e.c. | 10,240 | 17,160 | 27,540 | 17,300 | 10,380 |
| anagers, Officials, Proprietors | 137,480 | 164,300 | 205,980 | 68,500 | 41,680 |
| Conductors, railroad | 860 | 1,000 | 760 | -100 | -240 |
| Officers, pilots, engineers, ship | -100 | -180 | 680 | 280 | 200 |
| Creditmen | 1,020 | 1,400 | 2,140 | 1,120 | 740 |
| Purchasing agents | 2,060 | 2,970 | 3,550 | 1,490 | 580 |
| Postmasters and assistants | 770 | 780 | 660 | -110 | -120 |
| Managets, officials, proprietors, n.e.c. | 132,370 | 157,670 | 198,190 | 65.820 | 40,520 |
| lerical and Kindred Workers | 187,634 | 264,020 | 339,300 | 151,670 | 75,280 |
| Scenographers, typists, secretaries | 44,010 | 63,970 | 84,840 | 40,830 | 20,870 |
| Office machine operators | 7,380 | 10,650 | 16,240 | 8,860 | 5,590 |
| Other clerical and kindred workers | 136,240 | 189,400 | 238,220 | 101,980 | 48,820 |
| Accounting clerks | 7,450 | 9,700 | 10.980 | 3,530 | 1,280 |
| Bookkeepers, hand | 13,480 | 17,480 | 21,190 | 7,710 | 3,710 |
| Bank rellers | 2,520 | 4,440 | 6,560 | 4,040 | 2,120 |
| Cashiers | 9,260 | 15,140 | 22,000 | 12,820 | 6,940 |
| Mail carriers | 4,050 | 4,730 | 5,590 | 1,540 | 860 |
| Postal clerks | 4,790 | 6,070 | 6,550 | 1,760 | 480 |
| Shipping, receiving clerks | 6,840 | 8,740 | 9,720 | 2,880 | 980 |
| Tel-phone operators | 6,590 | 8,730 | 11,820 | 5,230 | 3,090 |
| Clerical and kindred, n.e.c. | 81,260 | 114,370 | 143,730 | 62,470 | 29,360 |
| les Workers | 86,910 | 104,860 | 132,800 | 45,890 | 27,940 |
| Insurance agents & brokers | 10,000 | 15,500 | 22,000 | 12,000 | 6,500 |
| Real estate agents & brokers | 1,600 | 2,000 | 2,900 | 1,300 | 900 |
| Other sales workers, n.e.c. | 75,310 | 87,360 | 107,900 | 32,590 | - |
| rafesmen, Foremen and Kindred | 157,620 | 210,090 | 258,580 | 100,960 | 20,540 48,490 |
| Construction craftsmen | 49,700 | 62,810 | 71,900 | 22,200 | 9,090 |
| Carpenters- | [6,840 | 19,690 | 21,380 | 4,540 | 1,690 |
| Brickmasons, stone, tile setters | 3,650 | 4,900 | 5,340 | 1,690 | 440 |
| Cement, concrete finishers | 930 | 1,300 | 1,800 | 870 | 500 |
| Electricians | 6,480 | 8,680 | 10,200 | 3,720 | |
| Excavating, grading machine operators | 5,050 | 6,500 | 8,120 | - 3,070 - | 1,520 |
| Painters and paperhangers | 8,110 | 10,540 | 10,570 | 2,460 | - 1,620 |
| Plasterers | 1,010 | 1,240 | 1,450 | 2,460 440 | 30 |
| Plumbers and pipelitters | 5,640 | 7,300 | | | 210 |
| Roofers and slaters | 1,010 | 1,280 | 9,490 . | 3,850 640 | 2,190 |
| Structural metalworkers | 980 | 1,380 | 1,650 | | 370 520 |
| Foremen, n.e.e. | | - | 1,900 | 920 | 520 |
| Metalworking, craftsmen except mechanics | 22,100 | 31,050 | 39,170 | 17,070 | 8,120 |
| Machinists and related occupations | 11,690 | 16,930 | 18,100 | 6,410 | 1,170 |
| Blacksmiths, forgemen, hammermen | 5,080 | 7,320 | 6,990 | 1,910 | -330 |
| Boilemakers | 370 | 420 560 | 350 | -20 | -70 |

APPENDIX 7 Continued. TOTAL EMPLOYMENT IN GEORGIA BY OCCUPATION 1960, 1967 AND PROJECTIONS TO 1975

| Occupational Title | | al Average Em | ployment | Net C | onge |
|---|------------------|----------------|-------------------------|------------|---------------|
| accopational title | 1960 | 1967 | 1975 | 1960-1975 | 1967-197 |
| Heat treaters, annealers, temperers | | | | - | |
| Millwrights | 150 | 230 | 250 | 100 | . 20 |
| Molders, metal (except coremakers) | 1,240 | 1,530 | 1,900 | 660 ' | 370 |
| Pattern makers, meral and wood | 290 | 430 | 540 | 250 | 110 |
| Rollers and roll hands | 440 | 670 | 740 | 300 | 70 |
| Sheetmeral workers | 120 | 180 | 240 | 120 | 60 - |
| Toolmakers, diemakers, setters | 2,050 1,660 | 3,030 | 3,770 | 1,720 | 7.10 |
| Mechanics and repairmen | 42,140 | 2,560 | 2,880 | 1,220 | 320 |
| Air conditioning, refrigeration & heating mechanics | 1,000 | 60,590 | 78,770 | 36,630 | 18, 180 |
| Airplane mechanics and repairmen | 2,780 | 1,500 | 2,200 | . 1,200 | 700 |
| Motor vehicle mechanics | • | 5,250 | 5,710 | 2,930 | 460 |
| Office machine mechanics | 15,730 | 20,750 | 23,590 | 7,860 | 2,840 |
| Radio and T.V. mcchanics | 930 2,020 | l,650 | 2,470 | 1,540 | · 820 |
| Railmad and cat shop mechanics | 780 | 2,650 | 3,070 | 1,050 | 420 |
| Other mechanics and repairmen | - | - 860 | 750 | -30 | -110 |
| Printing trades craftsmen | 18,900 | 27,930 | 40,980 | 22,080 | 13,050 |
| Compositors and typesetters | 3,580 3,190 | 4,490 | 5,330 | 1,750 | 840 |
| Electrotypers and stereotypers | 2,190 90 | 2,600 | 2,580 | 390 | -20 |
| Engravers except photoengravers | - i60 | - 80 | 70 | -20 | -10 |
| Photoengravers, lithographers | 260 | 220 340 | 270 | 110 | 50 |
| Pressmen and place princers | 880 | 440 | 810 | 550 | 370 |
| Transportation, and public utility craftsmen | - 6,920 | 1,150 | 1,600 | 720 | 450 |
| Linemen and servicemen | 5,200 | 9,160 7,710 | 11,850 | 4,930 | 2,690 |
| Locomotive engineers | 890 | 7,710 960 | 10.900 | 5,700 | 3,190 |
| Locomotive firemen | 830 | -190 - | 840 | -50 | -120 |
| Other craftsmen and kindred workers | 21,490 | 25,060 | . 110 | -720 | -380 . |
| Bakers - | 2,320 | - 2,580 | 3≩;460 3.930 | 11,970 | 8,400 |
| Cabinetmakers | 1,430 | 1,550 | 2,820 | 500 | 240 |
| Cranemen, derrick, hoistmen | 1,560 | 2,180 | 1, 80 0 3,010 | 370 | 250 |
| Glaziers | 310 | 420 | 5,010 670 | 1,450 | 830 |
| Jewelers and watchmakers | 640 | 740 | 690 | 360 | 250 |
| Loomfixers | 2,680 | 2,860 | 3,030 | 50 | -50 |
| Opticians, lens grinders | 240 | 310 | 340 | 350 | -170 |
| Inspectors, log and lumber | 790 | 760 | 950: | 100 160 | 30 |
| Inspectors, other | 1,690 | 2,020 | 2,830 | 1,140 | 190 |
| Uphólsterers | 1,230 | 1,410 | 1,790 | 560 | 810 380 |
| Craftsmen, kindred, n.e.c. | 8,600 | 10,230 | 15,530 | 6,930 | 5,300 |
| peracives and Kindred Workers | 278,630 | 361,670 | 407,270 | 128,640 | 45,600 |
| Drivers and deliverymen | 49,130 | 59,990 | 79,890 | 30,760 | 19,900 |
| Drivers, bus, truck, tractor | 38,060 | 45,850 | 60,210 | 22,150 | 14,360 |
| Deliverymen, routemen | 11,070 | 14,140 _ | 19,680 | 8,610 | 5,540 |
| Semiskilled metalworkers | 13,320 | 22,500 | 24,980 | 11,660 | 2,480 |
| Assemblers, metalworking, Class A | 690 ⁻ | 1,450 | 1,510 | 820 | 60 |
| Assemblers, metalworking, Class B | 4,070 | 6,480 | 6,570 | 2,500 | 90 |
| Inspectors, metalworking, Class B | 1,450 | 2,530 | 2,630 | 1,180 | , 100 |
| Machine tool operators, Class B | 2,290 | 3,730 | 3,330 | 1,040 | -400 |
| Electroplaters | 80 | 160 | 180_ | 100 | <u>\$</u> _20 |
| Electroplater helpers | 140 | 270 | 280 | 140 | ا اگ 10 |
| Fumacemen, smeltermen | 260 | 420 | 520 | 260 | 100 |
| lieaters, metal | 30 | 50 | 70 | 40 | 20 |
| Welders, flamecutters | 4,310 | 7,410 | 9,890 | 5,580 | 2,480 |

APPENDIX 7 Continued. TOTAL EMPLOYMENT IN GEORGIA BY OCCUPATION 1960, 1967 AND PROJECTIONS TO 1975

| Occupational Title | | el Average Em | ployment | Net Change | | |
|--|--------------------|--------------------------|----------|------------|------------------------|--|
| occupanional Liftig | 1960 | 1967 | 1975 | 1960-1975 | 1967-197 | |
| Towns and the same of the same | | | = | | | |
| Transportation and public utility operators | 2,770 | 3,040 | 3,060 | 290 | 20 | |
| Brakemen, switchmen | 2,000 | 2,100 | 1,880 | -120 | 220 | |
| Powerstation operators | _ 400 | 490 | 650 | 250 | 160 | |
| Sailors and deckhands | 370 | 450 | 530 | 160 | 80 | |
| Semiskilled textile occupations | 42,880 | 60,720 | 58,970 | 16,090 | ——-1 . 750— | |
| Knitters, loopers, toppers | 4,810 | 5,610 | 5,590 | 780 | -20 | |
| Spinners, textile | 5,310 | 5,690 | 3,680 | -1,630 | -2,010 | |
| Veavers, textile | 6,510 | 7,090 ^ | 4,950 | -1,560 | -2,140 | |
| Sewers and stitchers, manufacturing | 26,250 | 42,330 | 44,750 | 18,500 | 2,420 | |
| Other operatives and kindred | 170,530 | 215,420 | 240,370 | 69,840 | 24,950 | |
| Asbestos, insulation workers | 330 | 460 | 590 | 260 | 130 | |
| Accendant, auto service, parking | 9,170 | 10,830 | 14,080 | 4,910 | 3,250 | |
| Blasters and powdermen | 70 | - 100 | 130 | 60 - | 30 | |
| Laundry, dry cleaning operators | 9,240 | 10,940 | 11,640 | 2,400 | 700 | |
| Mine operatives, laborers, n.e.c. | 2,120 | 2,040 | 2,180 | 60 | 140 | |
| Meat cutters, except meat packing | 3,830 | 4,690 | 5,220 | 1,390 | 530 | |
| Operatives and kindred, nue.c. | 145,770 | 186,360 | 206,530 | 60,760 | 20,170 | |
| Service Workers | 189,700 | 236,810 | * | - | • | |
| Private household workers | 81,370 | 94,730 | 300,140 | 110,440 | 63,330 | |
| Protective service | 12,210 | 16,110 | 110,690 | 29,320 | 15,960 | |
| Firemen | 2,190 | 3,050 | 18,260 | 6,050 | 2,150 | |
| Policemen, other law enforcement officers | 4,170 | 6,230 | 3,410 | 1,220 | 360 | |
| Guards, watchmen, doorveepers | 5,850 | 6 ,8 30 | 7,150 | 2,980 | 920 | |
| Food service workers | 26,410 | 37,500 | 7,700 | 1,850 | 870 | |
| Bartenders | 2,380 | 3,,,00 3,260 | 51,900 | 25,490 | 14;400 | |
| Cooks except private household | 8,920 | 12,430 | 4,270 | 1,890 | 1,010 | |
| Counter, fountain workers | 2,640 | 4.460 | 17,400 | 8,480 | 4,970 | |
| Vaiters, waitresses | 12,470 | • | 6,670 | 4,030 | 2,210 | |
| Other service workers | 69,710 | 17,350 88,4 70 | 23,560 | 11,090 | 6,210 | |
| Airline stewards, stewardesses | - 390 | 960 | 119,290 | 49,580 | 30,820 | |
| Attendants, hospital and other | 9,190 | 13.720 | 1,790 | 1,400 | . 830 | |
| Charwomen and cleaners | 4,140 | | 19,430 | 10,240 | 5,710 | |
| Janitors and sextons | 12,780 | 5,600 | 8,060 | 3,920 | 2,460 | |
| Nurses, practical | 12,780 5.410 | 17,280 | 23,060 | 10,280 | 5,780 | |
| Other service workers, n.e.c. | ²⁷ ,800 | 6,460 | 8,420 | 3,010 | 1,960 | |
| aborers except Farm and Mine | • | 44,456 | 58,530 | 20,730 | 14,080 | |
| Farmers and Farm Workers | 8 3,370 | 92,080 | 94,760 | 11,390 | 2,680 | |
| | 123,320 | 87,000 ~ | 59,360 | -63,960 | -27,640 | |

APPENDIX 8. EXPANSION AND REPLACEMENT NEEDS BY OCCUPATION IN GEORGIA FROM

1967 -- 1975*

| Total | | 1967-1975 | 1,967-1975 |
|---|------------------|----------------|------------|
| = "T | 356,900 | /20 /70 | |
| COIESSIONAL Lechnical and Kindood | 79,540 | 429,670 | 786,570 |
| Professional, Technical, and Kindred Engineers, technical | 8,380 | 50,860 | 130,400 |
| Engineers, aeronautical | 290 | 2,240 | 10,620 |
| Engineers, chemical | 280 | 100 | 400 |
| Engineers, civil | 1,650 | 710 · | 340 |
| Engineers, electrical | 1,840 | 310 | 2,360 |
| Engineers, industrial | 1,140 | 200 | 2,150 |
| Engineers, mechanical | 1,090 | 400 | 1,340 |
| Engineers, metallurgical | 150 | 400 30 | 1,490 |
| Engineers, mining | •30 | - | 180 |
| Other engineers, technical | 1,970 | 10 | -20 |
| Medical, and other health workers | 9,740 | 410 | 2,380 |
| Dentist | 570 | 10,530 | 20,270 |
| Dietitians, nutritionists | 150 | 35D | 920 |
| Nurses, professional | | 240 | 390 |
| Optometrists | 3,420 | 4,950 | 8,370 |
| Osteopaths | ₌ 40 | 60 | 100 |
| Pharmacists | 80 | 50 | 130 |
| Physicians, surgeons | 230 | 600 | 830 |
| Psychologists | 1,920 | 1,060 | 2,980 |
| • • | 310 | 110 | 420 |
| Technicians, medical, dental Veterinarians | . 2,590 | 1,730 | 4,320 |
| | ₋ -20 | , 90 | 70 |
| Other medical and health workers Teachers | 450 | 1,290 | 1,740 |
| | 19,100 | 18,430 | 37,530 |
| Teachers, elementary | 5,640 | 9,180 | 14,820 |
| Teachers, secondary | 8,520 | 5,800 | 14,320 |
| Teachers, college | 2,880 | 1,870 | 4,750 |
| Teachers, other | 2,060 | 1,580 | 3,640 |
| Natural scientists | 3,520 | 810 | 4,530 |
| Chemists | 1,450 | 240 | 1,690 |
| Agricultural scientists | 480 | 170 | 650 |
| Biological scientists | 500 | 160 | 660 |
| Geologists, geophysicists | - 120 | ⇒ 20 | 140 |
| Mathematicians | 320 | 120 | 440 |
| Physicists | 640 | 50 | 690 |
| Other natural scientists | - 10 | 50 . | 60 |
| Social scientists | 670° | 290 | 960 |
| Economists | 290 | 100 | 390 |
| Statisticians, actuaries | 260 | 140 | 400 |
| Other social scientists | 120 | 50 | 170 |
| Technicians except medical and dental | 9,720 | 2,360 | 12,080 |
| Draftsmen | 1,050 | 350 | 1,400 |
| Surveyors | 750 | 130 | 880 |
| Air traffic controllers | 70 | 20 | 90 |
| Radio operators | . 140 | 30 | . 170 |
| - Technicians, other | 7,710 | 1, 8 30 | 9,540 |
| Other professional, technical and kindred workers | 28,410 | 16,200 | 44,610 |
| Accountants and auditors | 3,800 | 2,430 | 6,230 |
| Airplane pilote navigators Architects | - 690 -50 | 230 150 | 920′ – |

^{*} Georgia Department of Labor, Employment Security Agency, Georgia Jobs for the Future, 1971, p. 60 - 63.



APPENDIX 8 Continued. EXPANSION AND REPLACEMENT NEEDS BY OCCUPATION IN GEORGIA FROM

1967 - 1975

| Occupation | Expansion Needs - 1967-1975 | Replacement Needs 1967-1975 | Tatal Demand 1967-1975 |
|--|-----------------------------------|-----------------------------------|------------------------------|
| Clergymen | 3,370 | | |
| Designers except design draftsmen | 790 | 1,330 | 4,700 |
| Editors and reporters | 660 | . 440 | 1,230 |
| Lawyers and judges | 450 · | 470 | 1,130 |
| -Librarians | 690 | 970 | 1,420 |
| Personnel and labor relations workers | 1,240 | 1,110 | 1,800 |
| Photographers | 90 | 620 | 1,860 |
| Social and welfare workers | 1,010 | 160 | 250 |
| Workers in arts, entertainment | 5,190 | 1,010 | 2,020 |
| Professional, rechnical, kindred, n.e.c. | | 3,550 | 8,740 |
| Managers, Officials, Proprietors | 10,380 | 3,730 | 14,110 |
| Conductors, railroad | 41,680 | 36,990 | 78,670 |
| Officers, pilots, engineers, ship | -240 | 270 | 30 |
| Creditmen | 200 | 100 | 300 |
| Purchasing agents | 740 | 320 | 1,060 |
| Postmasters and assistants | - 580 | 470 - | 1,050 |
| Managers, officials, proprietors, n.e.c. | -120 | 240 | , 120 |
| Clerical and Kindred Workers | 40,520 | 35,590 | 76,110 |
| Stenographers, typists, secretaries | 75,280 | 94,550 | 169,830 |
| Office machine operators | 2L,870 | 30,360 | 51,230 |
| Other clerical, kindred workers | 5,590 | - 4,200 | 9,790 |
| Accounting clerks | 48,820 | 59,990 | 108,810 |
| Bookkeepers, hand | 1,280 | 3,400 | 4,680 |
| Bank tellers | 3,710 | 6,390 | 10,100 |
| Cashiers | 2,120 | 1,790 | 3,910 |
| Mail carriers | | 5,880 | 12,820 |
| Postal clerks | 860 - | 660 | 1,520 |
| Shipping, receiving clerks | 480 | 990 | 1,470 |
| Telephone operators | 980 | 1,320 | - 2,300 |
| | 3,090 | 4,110 | 7,200 |
| Clerical and kindred, n.e.c. | 29,360 | 35,450 | 64,810 |
| iales Workers | 27,940 | 27,470 | 55,410 |
| Insurance agents and brokers | 6,500 | 3,000 | 9,500 |
| Real estate agents and brokers | . 900 | 8 30 | 1,730 |
| Other sales workers, n.e.c. | 20,540 | 23,640 | 44,180 |
| Craftsmen, Foremen and Kindred | 48,490 | 34,020 | 82,510 |
| Construction craftsmen | 9,096 | 10,540 | 19,630 |
| Camenters | 1,690 | 3,780 | 5,470 |
| Brickmasons, stone, tile setters | 440 | 610 | 1,050 |
| Cement, concrete finishers | 500 | 190 | 690 |
| Electricians | 1,520 | 1,210= | 2,730 |
| Excavating, grading machine operators | | 760 | 2,380 |
| Painters and paperhangers | . 30 | 2,110 | 2,140 |
| Plasterers | 210 | 180 | 390 |
| Plumbers and pipefitters | 2,190 | -1,210 | 3,400 |
| Roofers and slaters | 370 | 230 | 600 . |
| Structural metalworkers | 520 | 260 | 78 0 |
| Foremen, h.e.c. | 8,120 | 5,340 | 13,460 |
| Metalworking, craftsmen except mechanics | 1,170 | 2,640 | 3,810 |
| Machinists and related occupations | -330 | 1,150 | 820 |
| Blacksmiths, forgemen, hammermen | بىسى -70• | 110 | 40 |
| Boilermakers | -120 | 80 | -40 |

APPENDIX 8 Continued. EXPANSION AND REPLACEMENT NEEDS BY OCCUPATION IN GEORGIA FROM

1967 — 1975

| | Expansion | Replacement | . Total |
|--|--------------------------|----------------|-----------------|
| Occupation - | Needs | Needs | Demand |
| | 1967-1975 | 1967-1975 | 1967-1975 |
| Heat treaters, annealers, temperers | 20 | 40 | 60 |
| Millwrights | 370 | 260 | . 630 |
| Molders, metal (except coremakers) | 110 | - 60 - | 170 |
| Pattern makers, metal-and-wood- | 70 | 1:10 | 180 |
| Rollers and roll hands | . 60 | 30 | - 90 |
| Sheetmetal workers | 740 | 410 | 1,150 |
| Toolmakers, diemakers, setters | 320 | 390 | 710 |
| Mechanics and repairmen | 18,180 | 8,980 | 27,160 |
| Air conditioning, refrigeration & heating mechanics | 700 | 190 | 890 |
| Airplane mechanics and repairmen | 460 | 440 | 900 |
| Motor vehicle mechanics | 2,840 | 2,310 | 5,150 |
| Office machine mechanics | 820 | 150 | 970 |
| Radio and T.V. mechanics | 420 | 210 | 630 |
| Railroad and car shop mechanics | -110 | 1,70 | 60 |
| Other mechanics and repairmen | 13,050 | 5,510 | 18,560 |
| Printing trades craftsmen | 840 | 690 | 1,530 |
| Compositors and typesetters | -20 | 390 | 370 |
| Electrotypers and stereotypers | -10 | . 10 | 0 |
| Engravers except photoengravers | 50 | 20 - | - 70 |
| Photoengravers, lithographers | ن 370 | 100 | . 470 |
| Pressmen and plate printers | . 450 | 170 | 620 |
| Transportation, and public utility craftsmen | 2,690 | 1,020 | 3.7 10 |
| Linemen and servicemen | 3,190 | 670 | 3,860 |
| Locoractive engineers | -120 | 320 | 200 |
| Locomotive firemen | -380 | 30 | -350 |
| Other craftsmen and kindred workers | 8,400 | 4,810 | 13,210 |
| Bakers | 240 | . 590 - | 830 |
| Cabinetmakers | 250 | 350 | 600 |
| Cranemen, derrickmen, hoistmen | 830 | 350 | 1,!80 |
| Glaziers | 250 | 50 | 300 |
| Jewelers and watchmakers | -50 | 150 | 100 |
| Loomfixers | 170 '. | 400 | 570 - |
| Opticians, lens grinders, polishers | 30 | 40 | 70 |
| Inspectors, log and lumber | 190 | 140 | 330 |
| Inspectors, other | - 810 | 470 | 1,280 |
| Upholsteters | 380 | 220 | 600 |
| Craftsmen and kindred, n.e.c. | 5,300 | 2,050 | 7.350 |
| Operatives and Kindred Workers | 45,600 | 72,830 | 118,430 |
| Drivers and deliverymen | 19,900 | 6,980 | 26,880 |
| Drivers, bus, truck, tractor | 14, <u>3</u> 60 5,540 | 5,090 | 19,450 |
| Deliverymen, routemen, cab drivers | 2,480 | 1,890 | -7,430 5,330 |
| Semiskilled metalworkers | 60 | 2,840 | 5,320 |
| Assemblers, metal working, Class A | 90 | 150_ | 210 |
| Assemblers, metalworking, Class B | 100 | 330 | 430 |
| Inspectors, :netalworking, Class B. Machine tool operators, Class B. | -400 | 400 | 450 () |
| Electroplasers | 20 | | |
| | 10 | 30 | 40 |
| Electroplater helpers Furnaceman, soneltermen, pourers | 100 | . 60 | 160 |
| Heaters, mere. | 20 . | 10 | 30 |
| Welders, flamecutters | 2,480 | 830 | 3,310 |
| | 2,400 × | | 2,310 |

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APPENDIX 8 Continued. EXPANSION AND REPLACEMENT NEEDS BY OCCUPATION IN GEORGIA FROM

1967 - 1975

| Occupation | Expansion Needs 1967-1975 | Replacement Needs 1967-1975 | Total Demand 1967-1975 |
|---|---------------------------------|-----------------------------------|------------------------------|
| Towns and the state of | | | 1707-1773 |
| Transportation and public utility operators | 20 | 440 | 460 |
| Brakemen, switchmen | -220 | 290 | 70 |
| Powerstation operators | 160 | 90 | ~ 250 |
| Sailors and deckhands | 80 | 60 | 140 |
| Semiskilled textile occupations | -1,750 | 19,020 | 17,270 |
| Knitters, loopers, toppers | -20 | 1,630 | 1,610 |
| Spinners, textile | -2,010 | 1,180 | -′ -830 |
| Weavers, textile | -2,140 | 1,230 | -910 |
| Sewers and stitchers, manufacturing | 2,420 | 14,980 | 17,400 |
| Other operatives and kindred | 24,950 | 43,550 | 68,500 |
| Asbestos, insulation workers | 130 | , 60 | 190 |
| Attendant, auto service, parking | 3,250 | 1,000 | 4,250 |
| Blasters and powdermen | 30 | 10 | 40 |
| Laundry, dry cleaning operators | 700 | 3,460 | 4,160 |
| Mine operatives, laborers, n.e.c. | 140 | 240 | 380 |
| Meat cutters, except meat packing | 530 | 790 | 1,320 |
| Operatives and kindred, n.e.c. | 20,170 | 37,990 | 58,160 |
| Service Workers | 63,330 | 88,370 | 151,700 |
| Private household workers | 15,960 | 38,620 | 54,580 |
| Protective service | 2,150 | 3,920 | 6,070 |
| Firemen | 360 | 670 | |
| Policemen, other law enforcement officers | 920 | 750 | 1,030 1,670 |
| Guards, watchmen, doorkeepers | 870 | 2,500 | 3,370 |
| Food service workers | 14,400 | 13,390 | |
| Bartenders | 1,010 | 750 | . 27,790 |
| Cooks except private household | 4,970 | 4,720 | 1,760 |
| Counter, fountain workers | 2,210 | • | 9,690 |
| Waiters, waitresses | 6,210 | 1,580 | 3,790 |
| Other service workers | 30,820 | 6,340 32,440 | 12,550 |
| Airline stewards, stewardesses | 830 | 52,440 550 | 63,260 |
| Attendants, hospital and other institutions | 5,710 | | 1,380 |
| Charwomen and cleaners | 2,460 | 4,610 | 10,320 |
| Janitors and sextons | • • | 2,150 | 4,610 |
| Nurses, practical | 5,780 | 6,450 | 12,230 |
| Other service workers, n.e.c. | 1,960 | 3,330 | 5,290 |
| Laborers except Farm and Mine | 14,080 | 15,350 | 29,430 |
| Farmers and Farm Workers | - 2,680 -27,640 | 12,710 11,870 | 15,390 -15,770 |

UNDERGRADUATE MAJOR OF 1958 COLLEGE GRADUATES WHO WERE EMPLOYED IN 1963* APPENDIX 9

| | Total | | 99.9 | 100.1 | 100.1 | 100.1 | 100.1 | 8'66 | 6.66 | 99.9 | 99.9 | 99.9 | |
|--------------------|---------------------------------|--|--------|------------------|-------------|-----------------|---------------------|--------|-------------|------------------------------|-----------|------------------|---|
| *· | 19w2nA oV | | 1.1 | 0.9 | 1.0 | 1.1 | 1.2 | 0.7 | 1.7 | 1.2 | 1.1 | i | |
| | Other Nonprofessional | | 2.4 | 18 | 1.0 | 3.5 | 2.4 | i | 10.3 | 5.6 | 1.9 | 1.3 | |
| | Clerical & Sales | | 7.2 | 3.8 | 2.8 | 8.8 | 4.8 | 2.1 | 7.0 | 16.8 | 1.7 | 2.6 | |
| · | Semiprofessional | | 1.6 | 2.2 | 6.0 | 1.1 | 2.0 | 0.7 | 2.6 | 1.9 | 1.7 | . . . | |
| 1963 | Other Professional | | 7.5 | 5.3 | 3.4 | 16.3 | 7.5 | 0.7 | 9.1 | 8.9 | 5.0 | 10.5 | |
| OCCUPATION IN 1963 | Business & Managerial | MEN | 21.7 | 6.0 | 7.5 | 24.8 | 14.0 | . 0.3 | 11.0 | 58.7 | 4.3 | 9.9 | - |
| CUPAT | Teacher . | 2 | 21.6 | 20.6 | 3.0 | 25.6 | 34.6 | 4.1 | 15.6 | 5.3 | 75.9 | 43.4 | |
| 8 | Health Professional | ~ | 5.8 | 21.9 | 0.2 | , 2.7 | 1.8 | 87.1 | 2.9 | i | 0.8 | 14.5 | |
| | Humanistic Professional | | 5.1 | 1.0 | 0.7 | 7.9 | 28.3 | ı | 1.4 | 1.2 | 2.5 | 3.9 | |
| | Social Scientist | | 1.1 | 0.3 | 0.3 | 4.3 | 1.1 | i | 1.2 | 0.2 | 0.7 | i | |
| | Engineer | | 18.8 | 10.8 | 77.3 | 2.3 | 1.4 | i | 1.4 | 4.7 | 1.9 | 10.5 | |
| | • Jetural Scientist | | 0.9 | 25.5 | 2.0 | | 1.0 | 4.1 | 35.7 | 0.5 | 2.4 | 5.3 | |
| | Number Employed Full-Time | - | 14,812 | 2,146 | 2,953 | 2,753 | 1,472 | 286 | 417 | 3,164 | 1,545 | 92 | |
| | | | | | | - | rts | - | | merce | | - | |
| - | Undergraduate | المساملة الم | - | Natural Sciences | ering | Social Sciences | Humanities and Arts | - | ture | Business and Commerce | tion | General Courses | |
| - | Underg | | Total | Natura | Engineering | Social | Humai | Health | Agriculture | Busine | Education | Genera | |

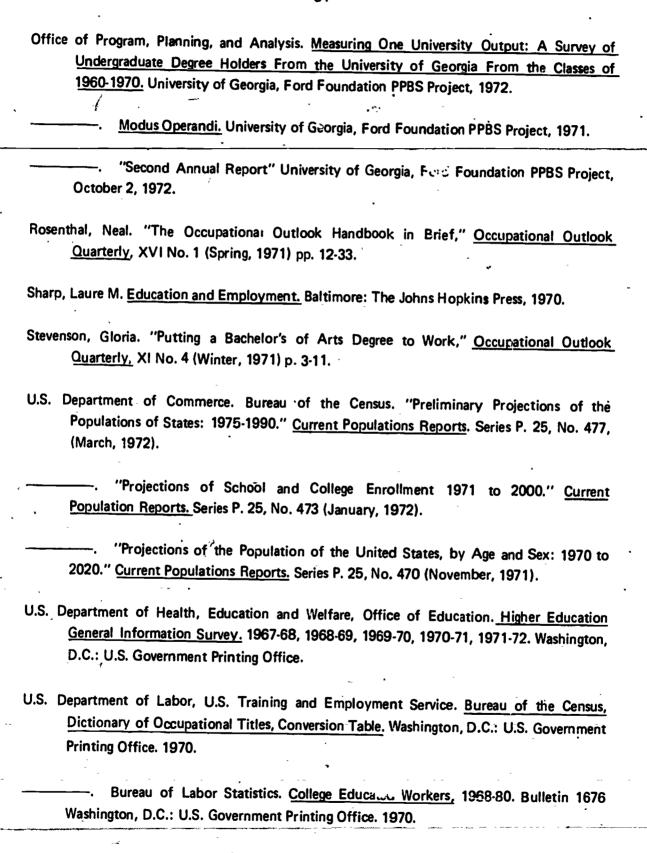
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